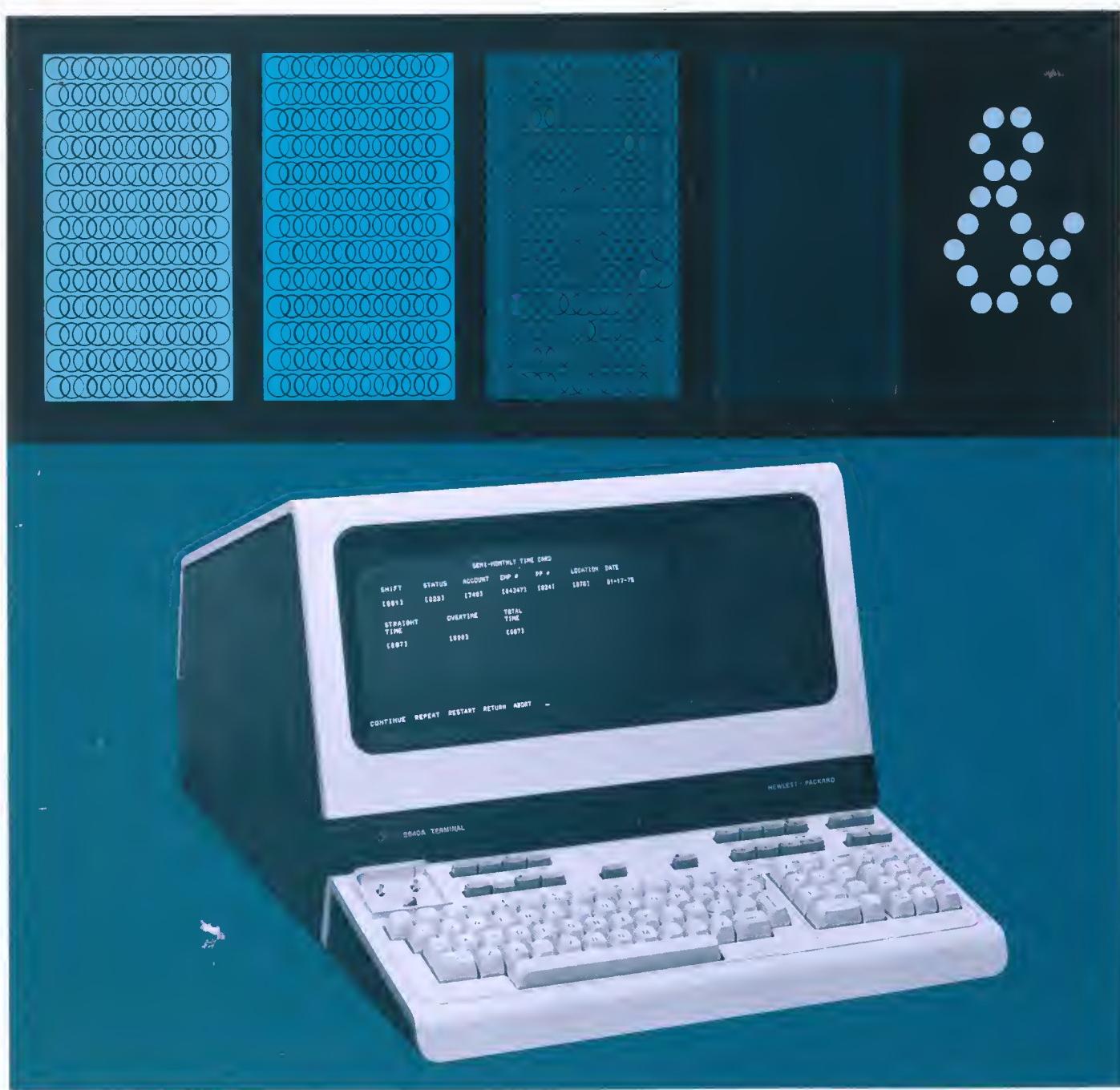


2640 Series Character Set Generation



2640 Series

Character Set Generation

By Jean-Claude Roy

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I. INTRODUCTION

The purpose of this kit is to enable 264XX users to generate and breadboard their own custom alphanumeric and microvector character sets. The kit contains this application note, a 02640-60053 Prom Character Board assembly, and a 02640-60070 Connector Assembly.

An initial overview of the display will give the reader familiarity with the character generation procedure employed within the terminal. This will be followed by detailed instructions and aids in designing either an alphanumeric or microvector character set and its eventual translation into PROM bit patterns. The final result of the application of the information contained in this note will be a set of PROMs containing the desired custom character set. ROM masks can be subsequently generated from the dot pattern data if the required quantity of parts is large.

Appendices A and B contain reproducible originals of several forms which are useful in designing and implementing a character set. The use of these forms is strongly encouraged to keep the dot bookkeeping simple and accurate. Finally, listings are given of the 128-character Roman set, the 64-character Math Symbol set, and the 64-character Line Drawing Set. These can be used as guides and examples in the design of new, custom character sets.

II. 2640 SERIES DISPLAY FUNDAMENTALS

THE BASIC CHARACTER CELL

The 264XX utilizes a raster scan display having a capacity of 1920 characters. It is organized as 24 rows of 80 columns spanning a screen size of nominally 10" in width by 5" in height. The basic character cell which is common to all 1920 character positions is shown in Figure 2.1. It consists of a rectangle 9 dots wide by 15 scan lines high. The blinking cursor and underline feature overlay the character cell in scan lines 11 and 12 as is shown in Figure 2.2.

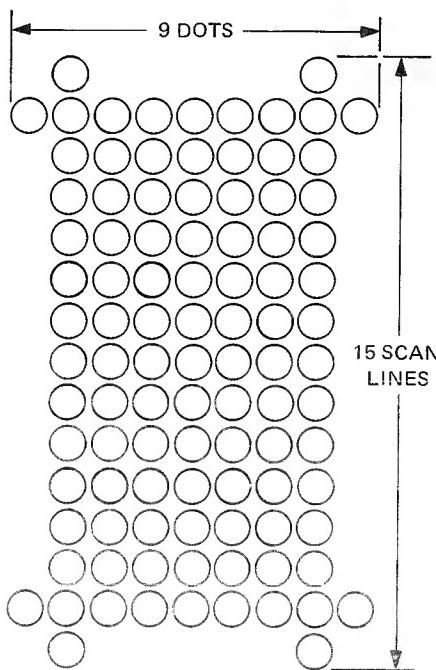


FIGURE 2.1

Basic Character Cell of 9 Dots x 15 Scan Lines With
Spacers Between Characters and Rows

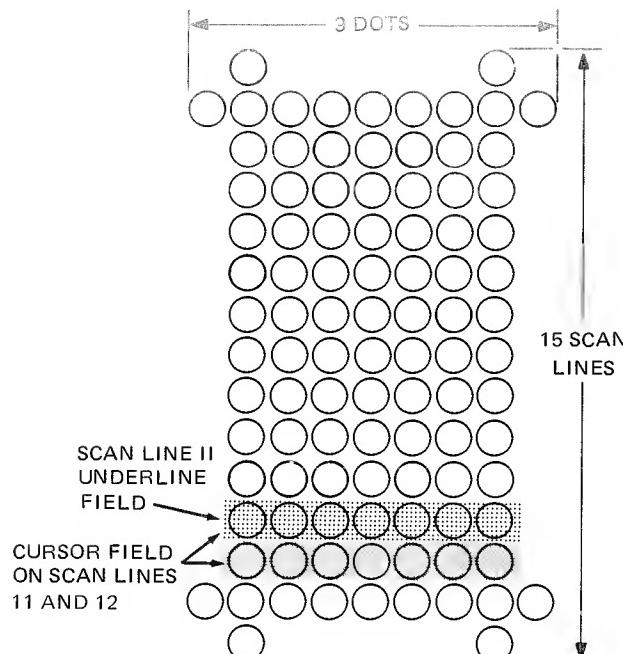


FIGURE 2.2

Basic Character Cell With Underline and Cursor Fields

TYPES OF CHARACTER SETS

Two types of character sets can be contained within the Terminal; alphanumeric sets and microvector sets. Alphanumeric sets are characterized by having a rectangle of 7 dots by 13 scan lines which are used for upper case, lower case, and control characters. Two of the dot columns, one on either side of the character, are used for horizontal character to character spacing. Similarly, two scan lines are used for vertical row to row spacing. These sets also utilize a resolution enhancing half-shift described below.

Microvector sets use the entire 9 dot by 15 scan line rectangle without the half-shift or spacer columns and scan lines. As a result, all of the encoded dots appear and the characters can be concatenated horizontally and vertically for contiguous lines. The primary purpose of the microvector sets is to generate special symbols and line segments for limited graphic display applications, forms, or histogram plots.

In practice, the horizontal line segments of characters are not visible as discrete dots but rather as line segments or bars. This results in greater light output and the elimination of horizontal discontinuities. The inherent graininess of a finite resolution dot matrix however, still remains. This is in part ameliorated by the use of the horizontal half-shift.

THE HALF-SHIFT AND CHARACTER ENHANCEMENT

Figure 2.3 illustrates a right parenthesis on a hypothetical 3x3 dot matrix. Due to the limited cell resolution the resulting character is very ragged.

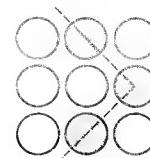


FIGURE 2.3
Ragged Right Parenthesis on Hypothetical
3x3 Dot Matrix

If the capability exists to utilize the horizontal interstitial two dots as shown in Figure 2.4, then a smoother parenthesis results.

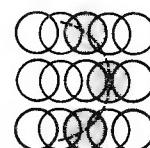


FIGURE 2.4
Smoother Right Parenthesis on Hypothetical 3x3 Dot Matrix
by Utilization of a Horizontal Dot Half-Shift

The 264XX has a half-shift as described above to achieve a pseudo-resolution expansion in the horizontal direction to 13 dots; 7 non-shifted dots and the interstitial 6 half-shifted dots. Figure 2.5 shows the final character cell which the 264XX uses for all alphanumeric characters. If vertically contiguous characters are desired, such as the components of a three row high integral sign, then dots may be coded in the normally vacant spacer scan lines 0 and 14.

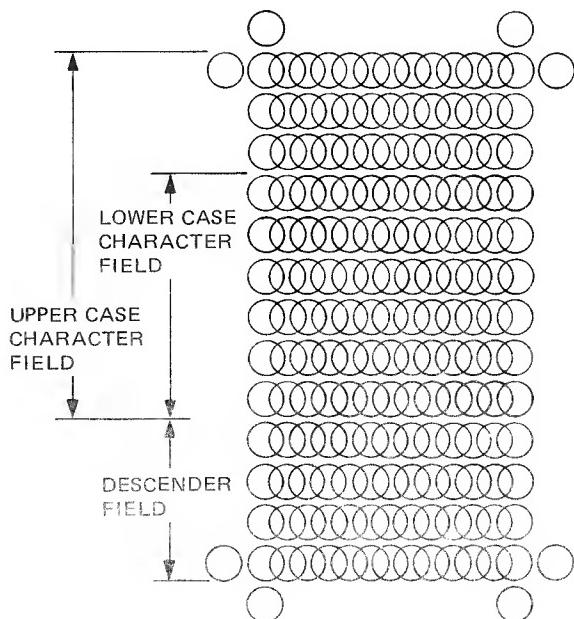


FIGURE 2.5
Basic Alphanumeric Character Cell with Six Interstitial Dot Positions 1-1/2 thru 6-1/2, Horizontal and Vertical Spacers, and Descender, Upper Case, and Lower Case Character Fields

The dot patterns which form the characters are stored in ROMs. In a basic alphanumeric system one 8K bit ROM holds the 64 character upper case primary set, including the space character. The 128 character set option consists of a second 8K bit ROM and adds the control characters and the lower case primary set, along with the delete character. The primary set is that alphabet which is immediately available to the user when the terminal is first turned on. Microvector character sets are stored as 64 characters per 9K bit ROM with partitioning similar to alphanumeric sets.

THE DISPLAY ENHANCEMENT BOARD

The Display Enhancement Board (Product No. 13231A) increases the 264XX character set capacity to 512 characters. These additional characters are partitioned as three sets of 128 characters each with 64 per ROM. The six sockets on the board can be set up with combinations of 128 or 64 character sets configured as being of either the alphanumeric or microvector type. All of the sets are accessible by means of escape sequences and control codes.

The Prom Character Set printed circuit board has the capacity for two 128 character sets encoded in 4K PROMs each containing 32 alphanumeric characters. Four 4K PROMs are required to store a 128 character set. If the set is of the microvector type, a fifth PROM is also needed to store the ninth bit of dots.

When the board is connected to either the Display Control Board or the Display Enhancement Board it can replace either the Terminal's primary set or any two of the three available alternate sets respectively. The particular two sets are selected by means of two jumpers on the PROM Character Board. The alternate sets can be of either the alphanumeric or microvector type, depending on the jumper configuration at the enhancement board. Section VIII will describe the PROM Character Board and its use in more detail.

III. ALPHANUMERIC CHARACTER GENERATION

MEMORY ORGANIZATION

Alphanumeric characters may be stored in either ROMs or PROMs. In the former case 8K bit ROMs are used, each containing 64 characters and organized as 1K words of 8 bits each. Sixteen consecutive ROM words are used per character with the first 15 actually appearing on the screen. The sixteenth word is never accessed. The representation of characters in PROMs rather than ROMs is basically identical. The differences are that only 32 characters are stored in each 4K PROM and that they must be used with the PROM Character Board. Section V describes the partitioning of the ASCII Code for both ROMs and PROMs in detail.

The output word bits are numbered 0 through 7 with BIT 1 corresponding to the first non-spacer dot column of a character, BIT 2 to the second dot column, etc. The outputs are ground true so that when a particular word is addressed and an output line goes low, then that dot lights up on the screen.

BIT 0 serves as the half-shift control bit. When it is true, i.e., low, then bits 1 through 6 are half-shifted by one-half dot position to the right to positions 1-1/2 through 6-1/2 respectively. Bits 0 and 7 cannot be set simultaneously; that would result in a dot at position 7-1/2 which is outside the 7 by 13 character area.

THE HALF-SHIFT ALGORITHM

Three simple rules can be stated in designing an alphanumeric character set employing the half-shift:

1. In any scan line segment any combination of dots 1 through 7 can be set without the half-shift (BIT 0 of the ROM word is high).
2. In any scan line segment any combination of dots 1-1/2 through 6-1/2 can be set with the half-shift (BIT 0 of the ROM word is low).
3. In any scan line segment BIT 0 and BIT 7 cannot be simultaneously set.

Figure 3.1a illustrates a character designed to these rules. Scan lines 1, 3, 7 and 9 are half-shifted while lines 2, 4, 5, 6 and 8 are not. Figure 3.1b is a representation of the same character as it is encoded in the character ROM or PROM.

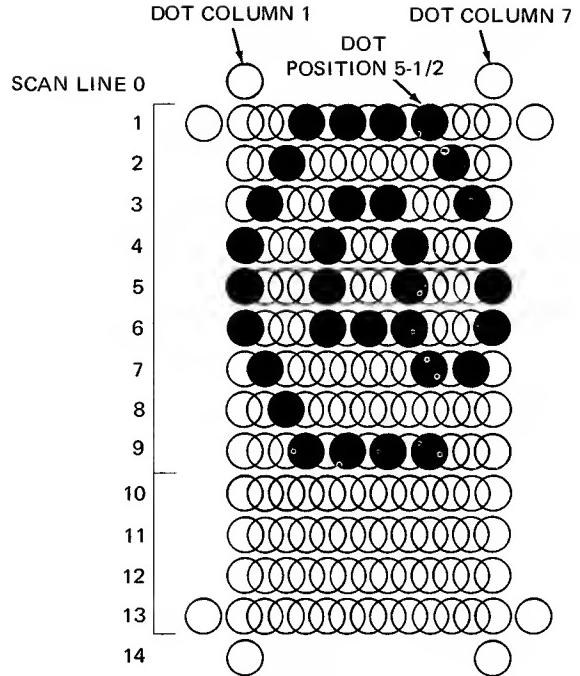


FIGURE 3.1a
An Upper Case Character Which Illustrates the Use of the Half-Shift Algorithm

	OUTPUT BITS							
	0	1	2	3	4	5	6	7
0	H	H	H	H	H	H	H	H
1	L	H	L	L	L	L	H	H
2	H	H	L	H	H	H	L	H
3	L	L	H	L	L	H	L	H
4	H	L	H	L	H	L	H	L
5	H	L	H	L	H	L	H	L
6	H	L	H	L	L	L	H	L
7	L	L	H	H	H	L	L	H
8	H	H	L	H	H	H	H	H
9	L	H	L	L	L	L	H	H
10	H	H	H	H	H	H	H	H
11	H	H	H	H	H	H	H	H
12	H	H	H	H	H	H	H	H
13	H	H	H	H	H	H	H	H
14	H	H	H	H	H	H	H	H
ROM WORD 15	H	H	H	H	H	H	H	H

(LEAST SIGNIFICANT FOUR ADDRESS BITS)

UNUSED SIXTEENTH WORD

DOT COLUMN BITS

HALF-SHIFT CONTROL BIT

FIGURE 3.1b
Character ROM Encoding of the Same Character

IV. MICROVECTOR CHARACTER GENERATION

MEMORY ORGANIZATION

Microvector characters, like alphanumeric characters, may be stored in either ROMs or PROMs. In the former case 9K bit ROMs are used, each containing 64 characters and organized as 1K words of 9 bits each. Sixteen consecutive ROM words are used per character with the first 15 actually appearing on the screen. The sixteenth word is never accessed. The representation of microvector characters in PROMs rather than ROMs is only slightly different in its implementation; 32 microvector characters are stored in each 4K PROM and an additional PROM is multiplexed over the entire 128 character set to provide the ninth data bit. As with the alphanumeric character sets, these PROMs must be used with the PROM character Board. Section V describes the partitioning of the ASCII Code for both ROMs and PROMs in detail.

The output word bits are numbered 0 through 8 with BIT 0 corresponding to the extreme left dot position in the character cell. BIT 1 corresponds to the second dot position, etc. As with the alphanumeric character ROMs and PROMs, the outputs are ground true so that when a particular word is addressed and an output line goes low, then that dot lights up on the screen.

MICROVECTOR DOT MATRIX

All 9 dots by 15 scan lines of the character cell are encoded within the Microvector character ROMs or PROMs. This gives the designer the freedom to generate any desired combination of vertically and/or horizontally contiguous characters within the 9x15 cell matrix. Larger characters can be formed by clustering several characters together to make a larger dot matrix.

Figure 4.1 illustrates a microvector character from the Line Drawing Set (See Appendix G) and its representation in ROM.

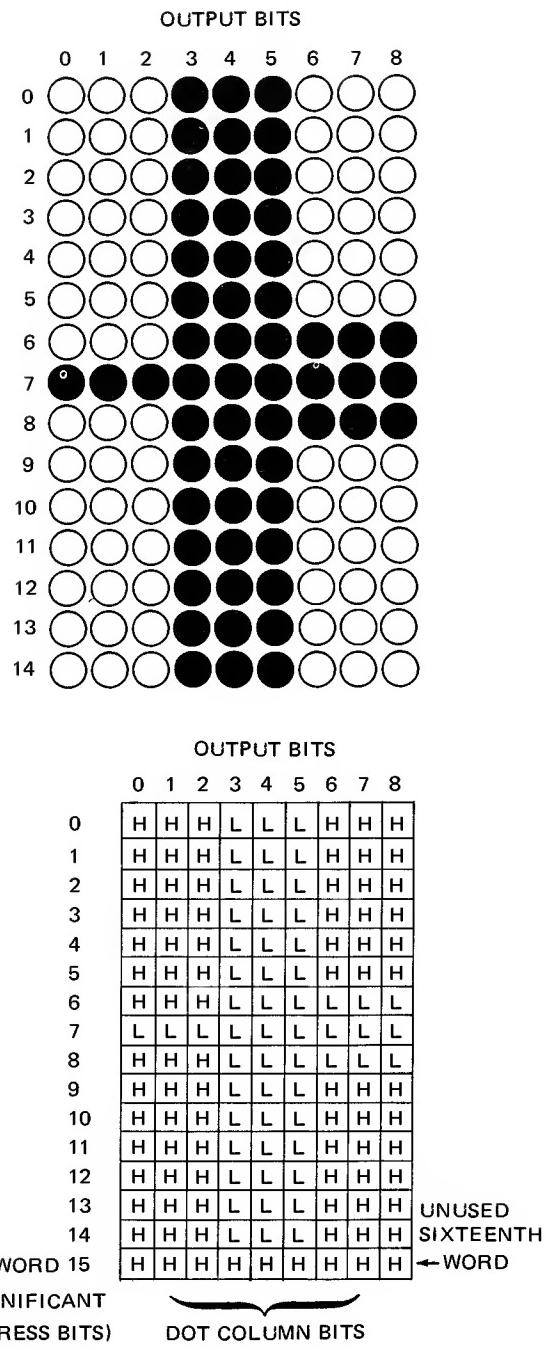


FIGURE 4.1

A representative Microvector Character and its Coding in ROM

V. THE ASCII CODE AND THE 264XX

This section will cover three areas of importance in the generation of a new character set. The first topic will deal with the partitioning of the 7-bit ASCII code within the 264XX into upper case, lower case, and control characters, both in ROM and PROM. Reference will then be made to those areas of the ASCII chart wherein expansion to alternate character sets is possible. Finally the mapping procedure from the keyboard to the ASCII chart will be covered.

Armed with this information the user can then answer the following fundamental questions before beginning a character set: 1) How many characters must be designed? 2) How many PROMs or ROMs will be needed to implement the set?, and 3) Where will the characters appear on the keyboard?

ASCII CODE PARTITIONING WITHIN THE 264XX

The 264XX partitions the 7-bit ASCII code into three categories; 64 upper case symbols, 32 lower case symbols, and 32 control codes. See Figure 5-1, taken from the standard ANSI code (ANS X3.4-1968). In the basic system only the 64 upper case ROM symbols are displayable; all lower case ROM symbols automatically become shifted to their upper case representations and control codes are stripped out. With the addition of the 128 character set option, all characters become displayable, including the control codes when in the Display Function mode.

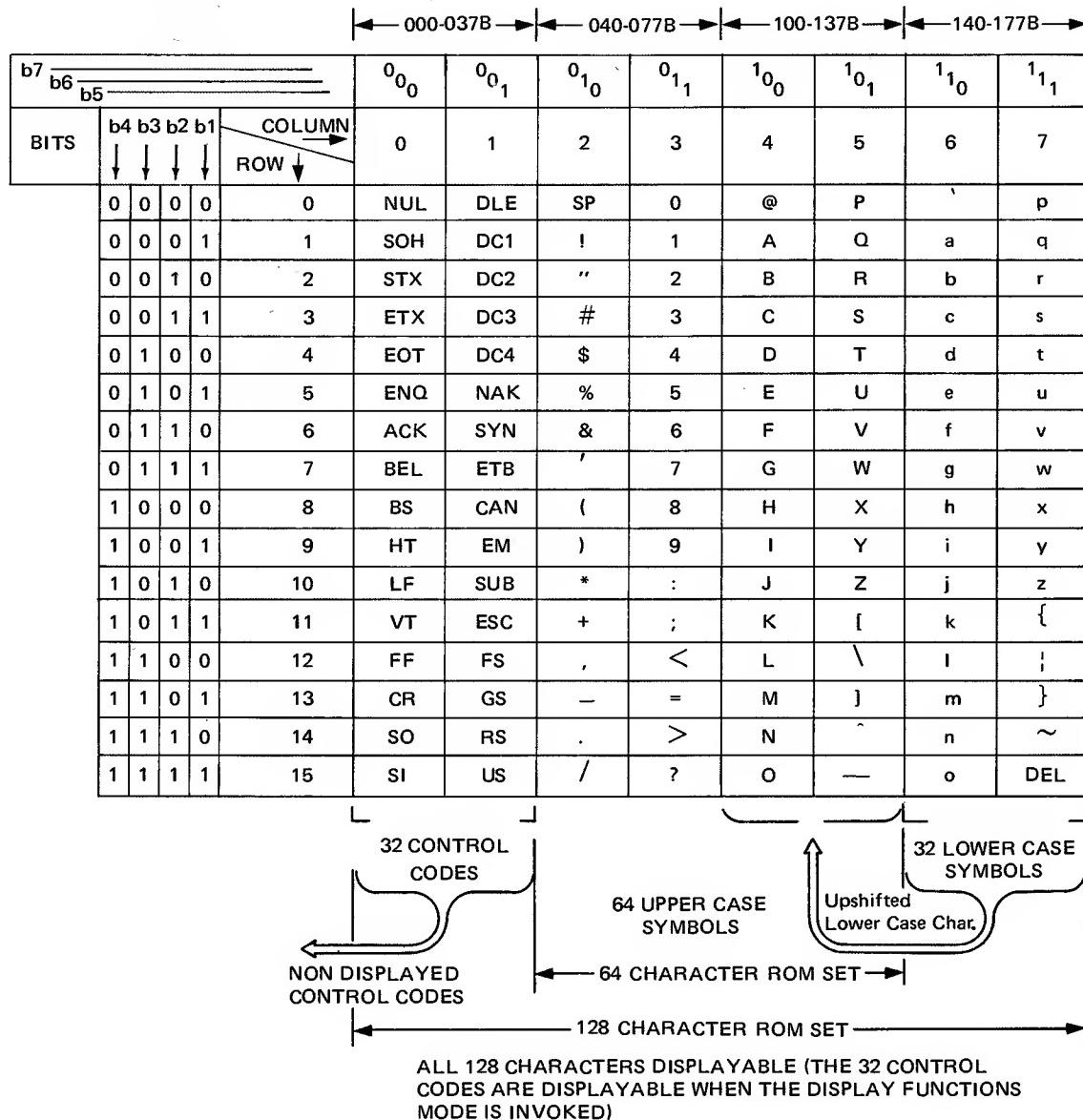


FIGURE 5.1
Partitioning of the 7 Bit ASCII Code With
a 64 and a 128 Character Set in ROM.

The upper case ROM stores the 64 upper case symbols (040-137B) while the lower case ROM stores the 32 control codes (000-037B) and the 32 lower case symbols (140-177B). Figure 5.2 illustrates the character ordering within the ROMs. When a 128 character set is stored in PROMs,

then the character partitioning is as shown in Figure 5.3. Each holds the 32 consecutive characters contained in one half of a character ROM. PROM sets are always treated as containing 128 characters; there is no upshifting of lower case symbols to their upper case representation.

0	SP	16	0	32	@	48	P
1	!	17	1	33	A	49	Q
2	"	18	2	34	B	50	R
3	#	19	3	35	C	51	S
4	\$	20	4	36	D	52	T
5	%	21	5	37	E	53	U
6	&	22	6	38	F	54	V
7	'	23	7	39	G	55	W
8	(	24	8	40	H	56	X
9	)	25	9	41	I	57	Y
10	*	26	:	42	J	58	Z
11	+	27	;	43	K	59	[
12	,	28	<	44	L	60	\
13	-	29	=	45	M	61]
14	.	30	>	46	N	62	^
15	/	31	?	47	O	63	_

UPPER CASE
ROM
040-137B
(SP-)

0	NUL	16	DLE	32	'	48	p
1	SOH	17	DC1	33	a	49	q
2	STX	18	DC2	34	b	50	r
3	ETX	19	DC3	35	c	51	s
4	EOT	20	DC4	36	d	52	t
5	ENQ	21	NAK	37	e	53	u
6	ACK	22	SYN	38	f	54	v
7	BEL	23	ETB	39	g	55	w
8	BS	24	CAN	40	h	56	x
9	HT	25	EM	41	i	57	y
10	LF	26	SUB	42	j	58	z
11	VT	27	ESC	43	k	59	{
12	FF	28	FS	44	l	60	:
13	CR	29	GS	45	m	61	}
14	SO	30	RS	46	n	62	~
15	SI	31	US	47	o	63	DEL

(N_U - U_S) ' - DEL)

FIGURE 5.2
Character Ordering Within the Upper Case
64 Character ROM & the Lower Case 64 Character ROM

0	NUL	16	DLE
1	SOH	17	DC1
2	STX	18	DC2
3	ETX	19	DC3
4	EOT	20	DC4
5	ENQ	21	NAK
6	ACK	22	SYN
7	BEL	23	ETB
8	BS	24	CAN
9	HT	25	EM
10	LF	26	SUB
11	VT	27	ESC
12	FF	28	FS
13	CR	29	GS
14	SO	30	RS
15	SI	31	US

000-037B (N_U - U_S)

0	SP	16	0
1	!	17	1
2	"	18	2
3	#	19	3
4	\$	20	4
5	%	21	5
6	&	22	6
7	'	23	7
8	(	24	8
9	)	25	9
10	*	26	:
11	+	27	;
12	,	28	<
13	-	29	=
14	.	30	>
15	/	31	?

040-077B (SP - ?)

0	@	16	P
1	A	17	Q
2	B	18	R
3	C	19	S
4	D	20	T
5	E	21	U
6	F	22	V
7	G	23	W
8	H	24	X
9	I	25	Y
10	J	26	Z
11	K	27	[
12	L	28	\
13	M	29]
14	N	30	^
15	O	31	_

100-137B (@ - _)

0	'	16	p
1	a	17	q
2	b	18	r
3	c	19	s
4	d	20	t
5	e	21	u
6	f	22	v
7	g	23	w
8	h	24	x
9	i	25	y
10	j	26	z
11	k	27	{
12	l	28	:
13	m	29	}
14	n	30	~
15	o	31	DEL

140-177B (' - DEL)

FIGURE 5.3
PROM Partitioning for 128 Characters

ANSI CODE EXTENSION

The proposed ANSI code extension (ANSI X3.4, 1968) partitions the 7-bit ASCII code into the following four groups: 1) a set of 32 control codes; 2) a set of 94 graphic characters comprising the upper case and lower case symbols; 3) the space character; and 4) the delete character. See Figure 5.4.

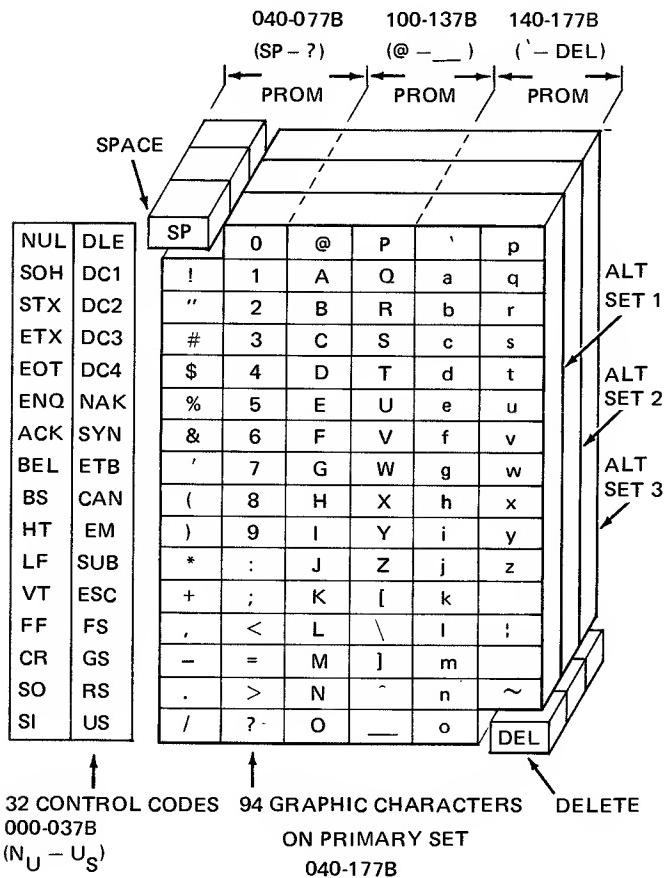


FIGURE 5.4

ANSI Partitioning of the 7 Bit ASCII Code

Also Shown Are Three Alternate 94 Character Graphic Sets

It is in the better interest of the user to not attempt to redefine the 32 control characters inasmuch as most of them are utilized by the 264XX. Similarly, the space and delete characters are already designated by convention for all graphic sets and must not be reassigned. This leaves the 94 graphic symbols of which 63 are in the upper case set (along with the space) and 32 are in the lower case set (including delete).

Figure 5.4 also illustrates the three alternate character sets which can reside within the terminal. Each set consists of 94 graphic characters, space, delete, and the original 32 control characters. For many applications alternate sets limited to 64 alphanumeric characters will suffice; these can be implemented in two 4K PROMs appearing together as an upper case set. If a ROM implementation is required later, then a single 8K ROM can contain the 64 characters.

Alphanumeric sets requiring 96 characters need three 4K PROMs for their implementation. In most cases the 32 control codes need not be replicated in the alternate sets since they are carried in the base set. If ROMs are used, however, the residual 32 characters of the lower case ROM would contain them anyway.

Microvector sets follow partitioning similar to alphanumeric sets. Only two differences need be noted. First, one PROM containing the ninth dot column must be used independent of the size of the alternate set. Secondly, ROM implementations utilize a 9K ROM to store 64 characters. The coding of both alphanumeric and microvector PROM sets will be covered in more detail in Section VII.

KEYBOARD ASSIGNMENTS

With the simple addition of PROM or ROM alternate sets the keycap-to-displayed character assignment does not change; to do so would entail firmware changes within the 264XX. All custom characters will then map with a one-to-one correspondence between the physical keys on the keyboard and the character's position on the ASCII chart. The basic Roman character set as defined by ANSI X3.4, 1968 should be used to locate a new character's ASCII chart location given its desired keyboard address.

For example, the "@" key may be assigned a new arbitrary symbol in some custom character set. To invoke that symbol requires that it be stored as the 33rd character of an upper case set, or at 100B.

It is advantageous when designing a new custom character set to first decide upon the keyboard assignment of the characters themselves. Such questions as how many characters are needed and where to place them on the keyboard must be answered. Having done this then leads immediately to the order in which the characters must be packed within the PROMs. The last step is the detailed design of the individual characters themselves; coding them into the PROM format, and getting the PROMs programmed.

VI. HINTS AND TIPS ON CHARACTER DESIGN

The design of a character set is more an art than a science; as such, aesthetics and human judgment predominate during the design and layout. This is especially true in the design of a foreign language alphabet. A person undertaking this task should, ideally, have at least a reading knowledge of the language to insure an accurate rendering of subtle character details. With this consideration in mind, though, some general tips can still be enumerated which can help the user wade through the morass of judgment and compromise needed to realize a working character set.

UNIFORMITY OF CHARACTER STYLE

The character style and symbol complexity are strong functions of the language being designed. Some languages will be difficult, while others will be fairly easy to reproduce in a dot matrix format.

Character representation variations such as varying line weights or slants may not be possible in many languages; if the symbols are complex, then heavy or slanted characters may exceed the width of the character cell. Similarly, the rigid format of a dot matrix makes most ornate variations difficult or impossible. Italic or script fonts may exceed the character cell on some characters. If, in spite of this, such a set is designed anyway with some characters not embellished, then the overall uniformity of the set is destroyed. The net effect is somewhat unpleasant and distasteful to the eye. The decision to use serifs on the characters also falls into this category. If they are used at all, they must be used everywhere to generate a uniformly harmonious set.

HORIZONTAL CENTERING

Another aspect of uniformity in character design is that all characters be centered within their respective cells. It is advantageous from an esthetic standpoint to spend a moment checking a character's centering after designing it. If it is an integral number of dots in width then centering can be done exactly via the half-shift. Otherwise the character can only be centered to within half a dot. Figure 6.1 illustrates an off-center character and a recentered version.

LOWER CASE CHARACTER HEIGHT

Lower case characters may be either 5 or 6 scan lines in height. The only advantage of using 5 lines is that a center line now exists. This advantage is offset by the more important consideration of lower legibility due to a smaller character. A 6 scan line high lower case character is strongly recommended in that the 20% increase in height more than compensates for the loss of the center line and yields a more legible character. Lower case descenders should utilize the entire field provided from scan lines 10 through 13.

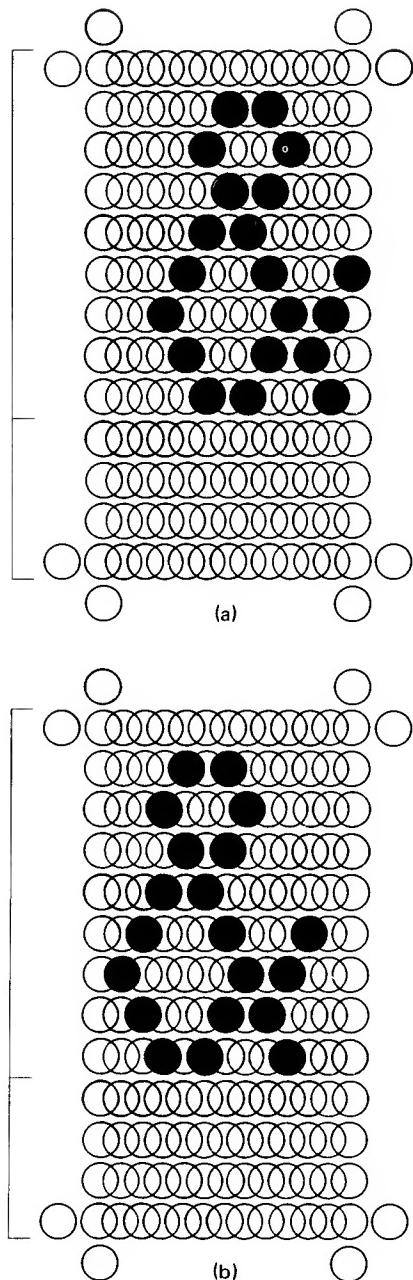
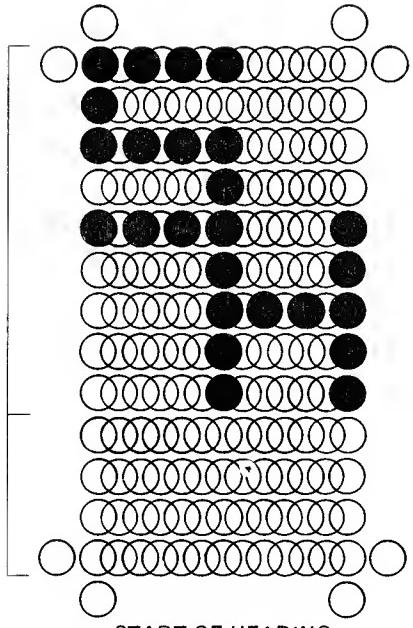


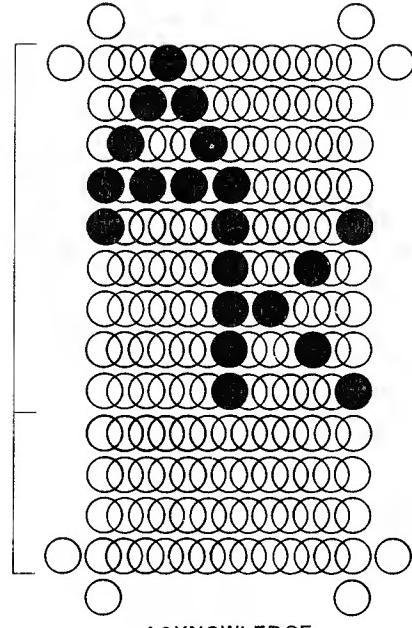
FIGURE 6.1
Illustrations of (a) Off-Center Character, and
(b) the Same Character Recentered to Within One Half Dot
of True Center

TWO CHARACTER MNEMONICS

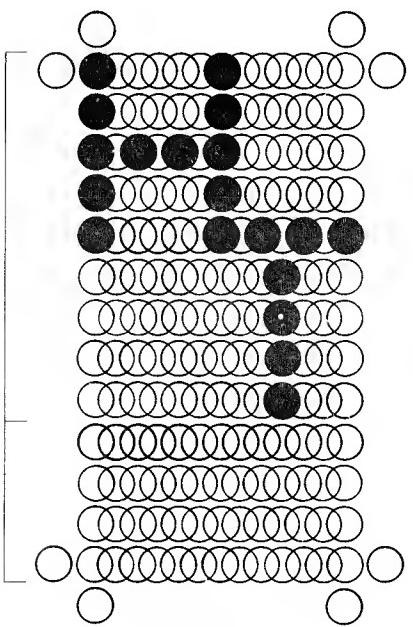
Special two character mnemonics can easily be coded within the 264XX character font. Several examples taken from the ASCII Control Codes are shown in Figure 6.2. Similar special characters can easily be generated by overlapping two miniature 4x5 characters one dot horizontally and one scan line vertically. This results in concatenated characters which are still legible yet can easily denote special symbols or functions.



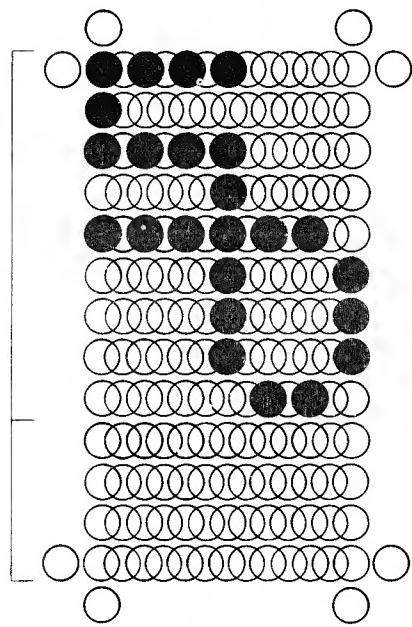
START OF HEADING



ACKNOWLEDGE



HORIZONTAL TAB



SHIFT OUT

FIGURE 6.2
Examples of Two Character Mnemonics
Taken From ASCII Control Codes

VERTICALLY CONTIGUOUS CHARACTERS

Some special alphanumeric character sets require that vertical character segments span across row boundaries. An example of this is the three segment integral sign found in the Math Symbol set (Figure 6.3). Such characters can be generated by encoding dots in the normally blank scan lines 0 and 14. When the characters are vertically butted then continuous vertical segments are formed.

CHARACTER BRIGHTNESS UNIFORMITY

One characteristic of the dot matrix which must be considered when designing characters is that diagonal segments may appear dimmer than horizontal or vertical segments. This is because the center-to-center spacing of dots on the diagonals is either 1.414 or 1.118 times the vertical spacing for non-half-shifted and half-shifted diagonals respectively.

The effect may be minimized to some extent by attempting to design out long diagonal segments intersecting horizontal or vertical segments. It is also sometimes useful to use a half-shift diagonal in place of a non-shifted diagonal since the former has the greater dot density.

Some characters, by virtue of their intrinsic shapes, have appendages which will not appear bright with respect to the bulk of the character. For example, the dot over the lower case 'i' or the dot under the exclamation point. These characters can be improved by using a cluster of three or four dots; this results in a spot which appears to be equal in brightness with the rest of the character.

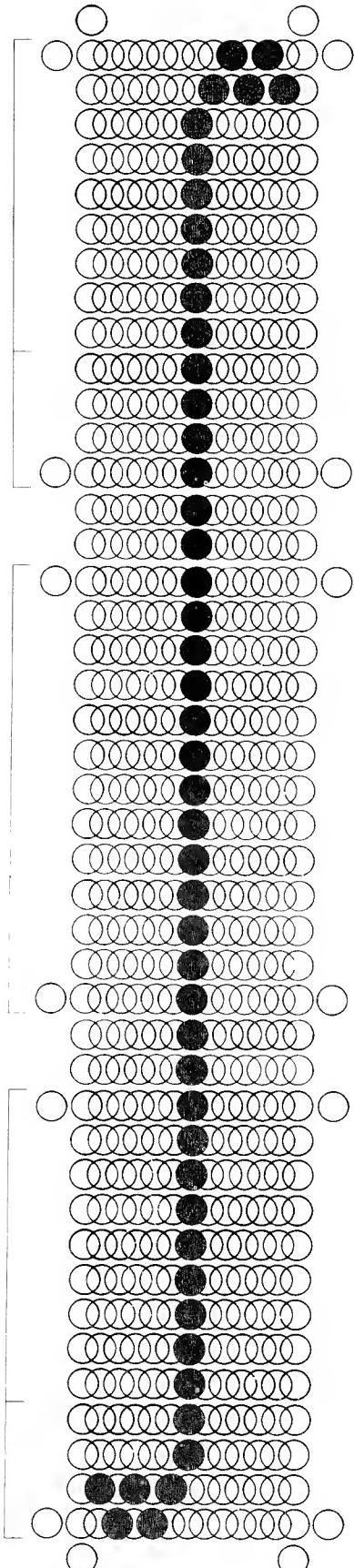


FIGURE 6.3
Three Segment Integral Sign Showing Vertical Contiguity

VII. ENCODING CHARACTERS IN PROM

This section will deal with the actual mechanics of generating character data in a format suitable for conversion to PROMs, beginning with the dot matrix and finishing with PROM data.

USE OF THE CHARACTER MATRIX WORKSHEET

Appendices A and B contain dot matrix worksheets to simplify the generation of alphanumeric and microvector characters respectively. Figure 7.1a illustrates a hypothetical alphanumeric character designed in accordance with the conventions described in Section VI. In addition, by way of example, it is desired that this character be invoked by means of the upper case "p" key on the keyboard.

Figure 7.1b shows the same character as it must be encoded as bits in a PROM. The half-shifted dots in scan lines 2, 4, 6, 8 and 10 are now represented as combinations of the half-shift control bit and the unshifted dot bits.

Similarly, Figure 7.2a illustrates a hypothetical microvector character to be invoked by means of the lower case "q". Figure 7.2b is the same character translated into bit format for two PROMs, the first holding dots 0 thru 7, and the second holding the eighth dot. (The rationale for assigning the dot 8 data to BIT 3 of the second PROM will be discussed below.)

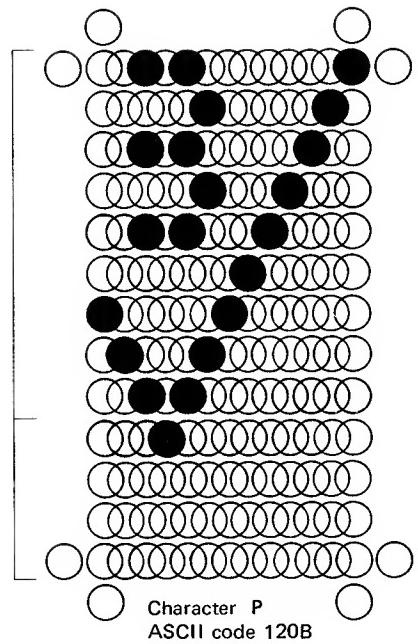
RECOMMENDED PROM VENDORS AND THEIR DATA FORMATS

Two vendors are recommended as possible suppliers of 4096 bit (512 word x 8 bit) Bipolar PROMs suitable for use in the 02640-60053 printed circuit assembly. These are the following:

Monolithic Memories, Inc., Model 6340
1165 E. Arques Avenue
Sunnyvale, CA 94086

Intel Corporation, Model 3604
3065 Bowers Avenue
Santa Clara, CA 95051

Both Intel and MMI prefer to receive the PROM data in ASCII paper tape format. It is still in the better interest of the user to verify the preferred data format with their local manufacturer's representative before encoding the data. Appendices C and D list the data formats for MMI and Intel PROMs respectively. Both are very similar except for the use of H and L by MMI and P and N by Intel to represent the absence and presence of dots.



(a)

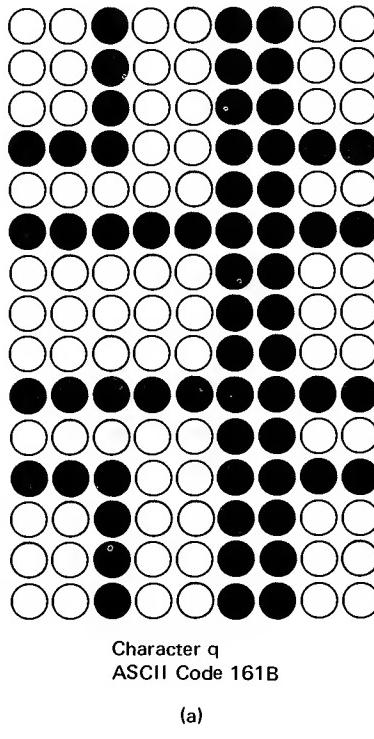
	BIT 0	BIT 1	BIT 2	BIT 3	BIT 4	BIT 5	BIT 6	BIT 7
HALF-SHIFT CONTROL	DOT 1	DOT 2	DOT 3	DOT 4	DOT 5	DOT 6	DOT 7	
0	0	0	0	0	0	0	0	0
1	0	0	1	1	0	0	0	1
2	1	0	0	1	0	0	1	0
3	0	0	1	1	0	0	1	0
4	1	0	0	1	0	1	0	0
5	0	0	1	1	0	1	0	0
6	1	0	0	0	1	0	0	0
7	0	1	0	0	1	0	0	0
8	1	1	0	1	0	0	0	0
9	0	0	1	1	0	0	0	0
10	1	0	1	0	0	0	0	0
11	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0

(b)

FIGURE 7.1
(a) Hypothetical Alphanumeric Character as Designed on the Alphanumeric Dot Matrix Worksheet
(b) The Same Character as Represented in Bit Format

ENCODING ALPHANUMERIC CHARACTERS IN PROM

Once the alphanumeric characters are both defined in bit format and assigned a position on the ASCII chart, it is a straightforward process to encode the bits into the PROM format. Each character requires 16 consecutive words starting with word 0. The first character occupies words 0-15, the second 16-31, etc. The example of Figure 7.1 is to



(a)

(a) Hypothetical Microvector Character as Designed
on the Microvector Dot Matrix Worksheet
The Character is to be Invoked by Means of the "q" Key (161B)

FIGURE 7.2

(b) The Same Character as Represented in Bit Format;
Dots 0-7 are Contained in the First of the Two Microvector
PROMs While Dot 8 is Stored as BIT3 of the Second PROM.

	BIT 0	BIT 1	BIT 2	BIT 3	BIT 4	BIT 5	BIT 6	BIT 7	BIT 3
DOT 0	0	0	1	0	0	1	1	0	0
DOT 1	1	0	0	1	0	0	1	1	0
DOT 2	0	0	1	0	0	1	1	0	0
DOT 3	3	1	1	1	0	0	1	1	1
DOT 4	4	0	0	0	0	0	1	1	0
DOT 5	5	1	1	1	1	1	1	1	1
DOT 6	6	0	0	0	0	0	1	1	0
DOT 7	7	0	0	0	0	0	1	1	0
DOT 8	8	0	0	0	0	0	1	1	0
DOT 9	9	1	1	1	1	1	1	1	1
DOT 10	10	0	0	0	0	0	1	1	0
DOT 11	11	1	1	1	0	0	1	1	1
DOT 12	12	0	0	1	0	0	1	1	0
DOT 13	13	0	0	1	0	0	1	1	0
DOT 14	14	0	0	1	0	0	1	1	0
DOT 15	15	0	0	0	0	0	0	0	0

(b)

BIT 7 BIT 0

BHHHHHHHHF BLHHHLLHHF BHLHHLHHLF BHLHLLHHHF
BHHHLHLHHLF BHHHLHLLHHF BHHHLHHHLHF BHHHLHHLHF
BHHHHHLHLHF BHHHHHLLHHF BHHHHHLHLHF BHHHHHHHHHF
BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF

(a)

BIT 7 BIT 0

BPPPPPPPPP F BNPPPNPPPF BPNPPNPPNF BPNPPNNPPF
BPPNPNNPNF BPPNPNNPPF BPPPNPPNPNF BPPPNPPNPF
BPPPPNPNNF BPPPPNPNNPF BPPPPPNPNF BPPPPPPPPP F
BPPPPPPPPP F BPPPPPPPPP F BPPPPPPPPP F BPPPPPPPPP F

(b)

FIGURE 7.3

(a) Hypothetical Alphanumeric Character of Figure 7.1 as Encoded
in an MMI 4K PROM
The Character is to be Invoked by Means of the "P" Key

(b) The Same Character as Encoded in an Intel 4K PROM

be placed as the seventeenth character of the PROM containing the ASCII codes 100-137B. Hence, it would be encoded as words 256-271 of that PROM.

Figure 7.3 illustrates the same character in both MMI and Intel 4K PROM format. Note that the PROMs require the data to be encoded starting with the most significant bit whereas the half-shift control bit, BIT 0, is the least significant bit. A listing of the contents of a PROM then appears as the mirror image of the bit representation of characters (such as Figure 7.1b).

ENCODING MICROVECTOR CHARACTERS IN PROM

The translation process for converting microvector characters in bit format to PROM format is essentially the same as for alphanumeric characters with regard to dots 0-7. Dot 8 of microvector characters must be encoded as one bit position of a second PROM, the Microvector Bit 8 PROM. Table 7.1 tabulates which bit of the Microvector Bit 8 PROM must be used for each 32 character PROM in the set.

Each word of this PROM is multiplexed over the four PROMs which can hold a complete 128 character set; the least significant four output bits (0-3) correspond to the eighth microvector dot in each of the 32 characters per quadrant of the complete set. As many bit columns of the microvector Bit 8 PROM will then be used as there are 32 character PROMs in the set.

Table 7.1 can be used to verify that the example character of Figure 7.2 would use the BIT 3 column of the Microvector Bit 8 PROM. Figure 7.4 illustrates the coding of the bit format of the example in both MMI and Intel 4K PROM format. Since the character is to appear as a lower case "q", then it would occupy words 272-287 of both PROMs.

DATA BIT USED FOR MICROVECTOR BIT 8

CHARACTER SET PROM	BIT 0	BIT 1	BIT 2	BIT 3
000-037B (N _U - U _S)	X			
040-077B (SP - ?)		X		
100-137B (@ - __)			X	
140-177B (` - DEL)				X

TABLE 7.1
Microvector Bit 8 Assignment

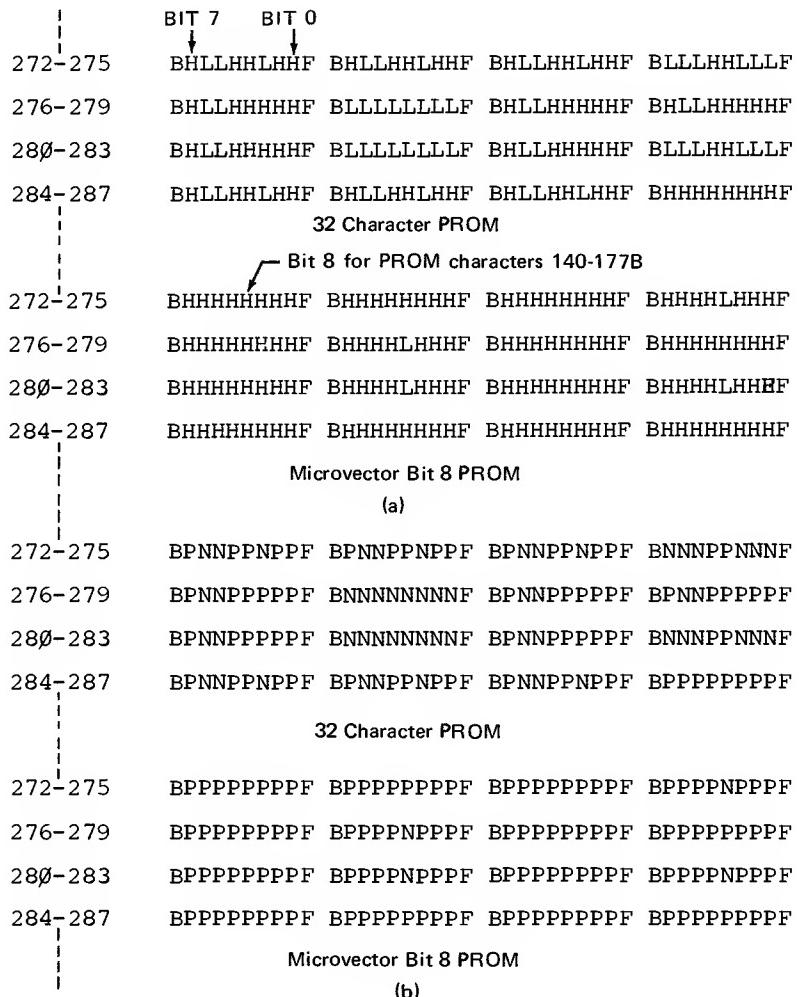


FIGURE 7.4
(a) Hypothetical Microvector Character of Figure 7.2
as Encoded in an MMI 4K PROM
The Character is to be invoked by Means of the "q" Key
The Microvector Bit 8 PROM Contents are Also Shown
(b) The Same Character as Encoded in Intel 4K PROMs

VIII. USE OF THE PROM CHARACTER BOARD

There are two configurations for the PROM Character Board. These are the replacement with custom PROM character sets of either the primary character set (SET0) or any one or two of the three available alternate sets, SET1, SET2, or SET3.

REPLACEMENT OF THE PRIMARY SET

The primary character set may be replaced with a custom alphanumeric PROM set up to 128 characters in length. Figure 8.1a illustrates the jumper configuration and PROM sockets used for this purpose. An upper case set of 64 characters, by way of example, would occupy sockets

XU12 (040-077B) and XU13 (100-137B). The existing primary character set in ROM on the Display Control Board must be removed before attempting to replace the set with a PROM version. Also, the jumpers on the Display Control Board and the PROM Character Board must be configured as shown in Table 8.1.

The PROM Character Board is plugged into the 264XX backplane adjacent to the Display Control Board as is shown in Figure 8.1b. The two boards are connected together with the Connector Assembly (02640-60070) provided. Note that the correct orientation of the connector is with the handle in a downward position.

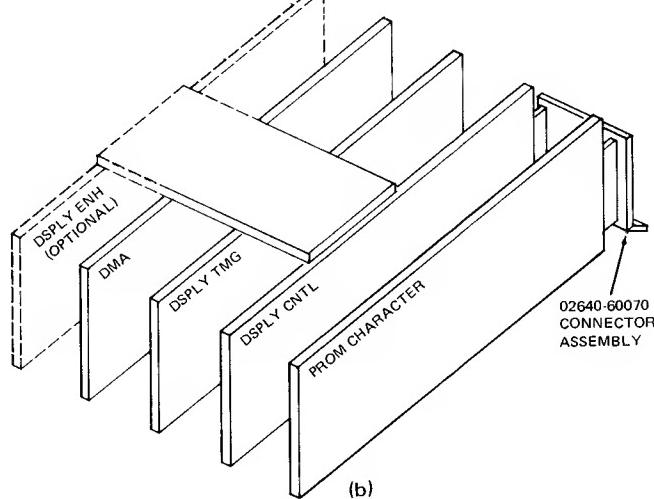
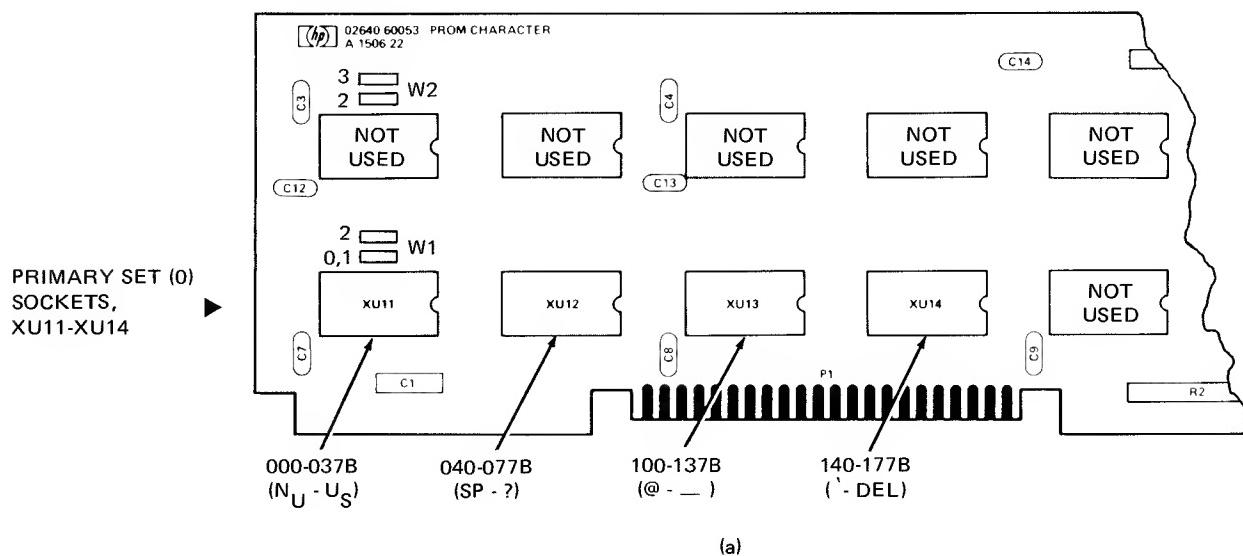


FIGURE 8.1
Replacing the Primary Set (Set 0) with a PROM Version
a) PROM Location and Jumper Configuration on the PROM Character Board. b) Display Subsystem Board Configuration.

REPLACEMENT OF ALTERNATE SETS 1, 2, AND 3

Any one or two alternate sets may be replaced with custom PROM versions. Figure 8.2a illustrates the PROM sockets used for this purpose and their respective character assignments. Table 9.1 shows the jumper configuration for both alphanumeric and microvector character sets.

A set represented in PROM cannot simultaneously be represented in ROM on the Display Enhancement Board. Mixing of different sets is permitted. Thus alternate set 1 may be a Math Symbol Set or Line Drawing Set ROM

while alternate set 2 is a custom PROM set on the PROM Character Board. The jumper configuration for alternate character sets 1 and 2 would then be taken from the installation manual and Table 9.1 respectively.

The PROM Character Board is plugged into the 264XX backplane adjacent to the Display Enhancement Board as is shown in Figure 8.2b. The two boards are connected together with the Connector Assembly (02640-60070) provided. Note that the correct orientation of the connector is with the handle in a downward position.

Alternate sets 2 or 3, depending on the jumper location. Sockets XU1, XU2, XU3, and XU4 are used. XU5 is used for the microvector BIT 8.

Primary set 0 or alternate sets 1 or 2, depending on the jumper location. Sockets XU11, XU12, XU13, and XU14 are used. XU15 is used for the microvector BIT 8.

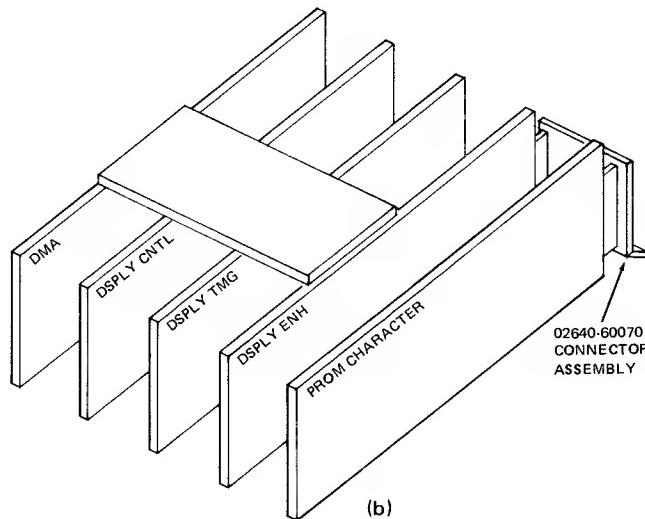
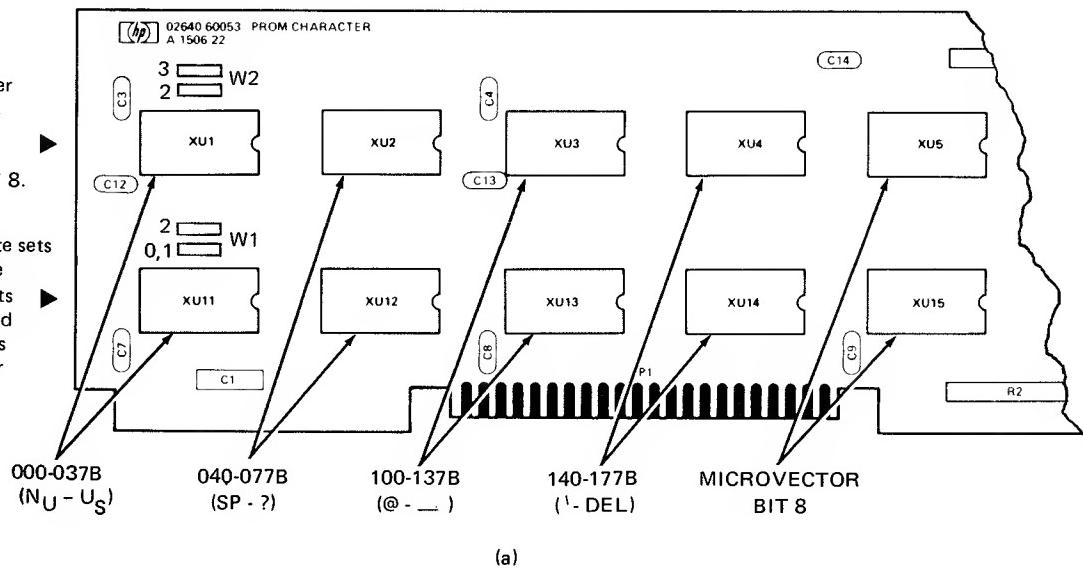
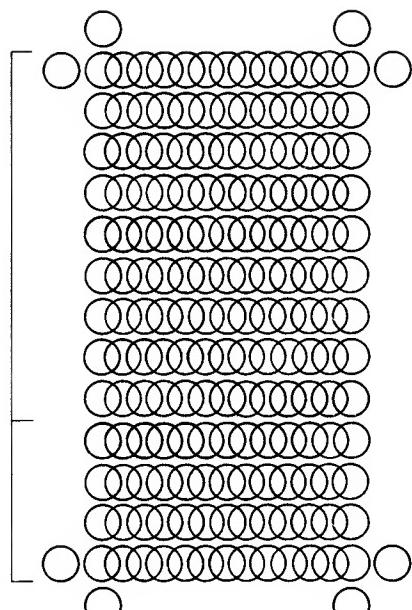


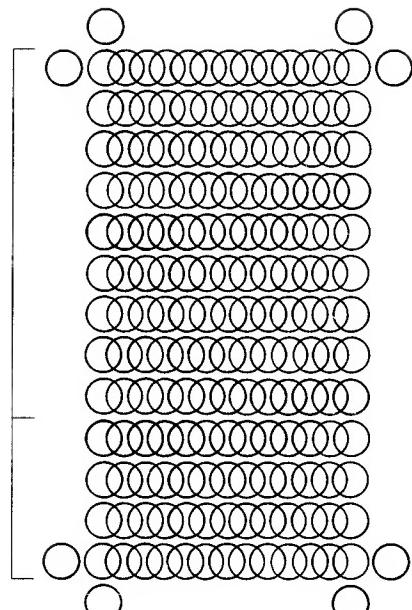
FIGURE 8.2
Replacing Alternate Sets 1, 2, or 3 with PROM Versions
on the PROM Character Board. a) PROM and Jumper
Locations for Replacing Alternate Sets 1, 2, or 3.
b) Display Subsystem Board Configuration.

TABLE 8.1
Jumper Configurations

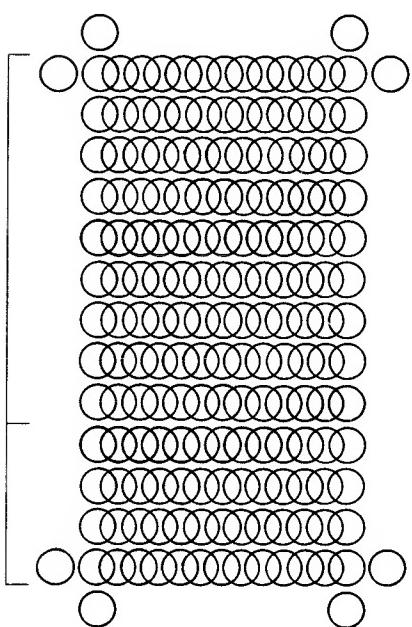
PROM REPLACEMENT SET	PROM CHARACTER BOARD				DISPLAY BOARD AFFECTED	
	JUMPER W1 POSITION	SOCKETS USED	JUMPER W2 POSITION	SOCKETS USED	BOARD NAME	JUMPER POSITION
SET 0	0,1	XU11-XU14	NOT USED	NOT USED	DSPY CNTL	IN
ALT SET 1	0,1	XU11-XU14 (ALSO XU15 IF SET 1 IS MICROVECTOR)	NOT USED	NOT USED	DSPY ENH	W1, W2 IN (W2 OUT IF SET 1 IS MICROVECTOR)
ALT SET 2	2	XU11-XU14 (ALSO XU15 IF SET 2 IS MICROVECTOR)	NOT USED	NOT USED	DSPY ENH	W3, W4 IN (W4 OUT IF SET 2 IS MICROVECTOR)
ALT SET 3	NOT USED	NOT USED	3	XU1-XU4 (ALSO XU5 IF SET 3 IS MICROVECTOR)	DSPY ENH	W5, W6 IN (W6 OUT IF SET 3 IS MICROVECTOR)
ALT SETS 1,2	0,1	SET 1 IN XU11-XU14 (ALSO XU15 IF SET 1 IS MICROVECTOR)	2	SET 2 IN XU1-XU4 (ALSO XU5 IF SET 2 IS MICROVECTOR)	DSPY ENH	W1, W2, W3, W4 IN (W2, W4 OUT IF SETS 1 AND/OR 2 RESPECTIVELY ARE MICRO- VECTOR)
ALT SETS 1,3	0,1	SET 1 IN XU11-XU14 (ALSO XU15 IF SET 1 IS MICROVECTOR)	3	SET 3 IN XU1-XU4 (ALSO XU5 IF SET 3 IS MICROVECTOR)	DSPY ENH	W1, W2, W5, W6 IN (W2, W6 OUT IF SETS 1 AND/OR 3 RESPECTIVELY ARE MICRO- VECTOR)
ALT SETS 2,3	2	SET 2 IN XU11-XU14 (ALSO XU15 IF SET 2 IS MICROVECTOR)	3	SET 3 IN XU1-XU4 (ALSO XU5 IF SET 3 IS MICROVECTOR)	DSPY ENH	W3, W4, W5, W6 IN (W4, W6 OUT IF SETS 2 AND/OR 3 RESPECTIVELY ARE MICRO- VECTOR)



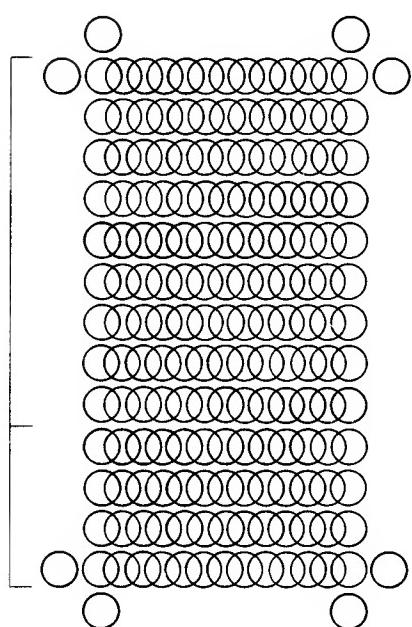
Character _____
ASCII code _____



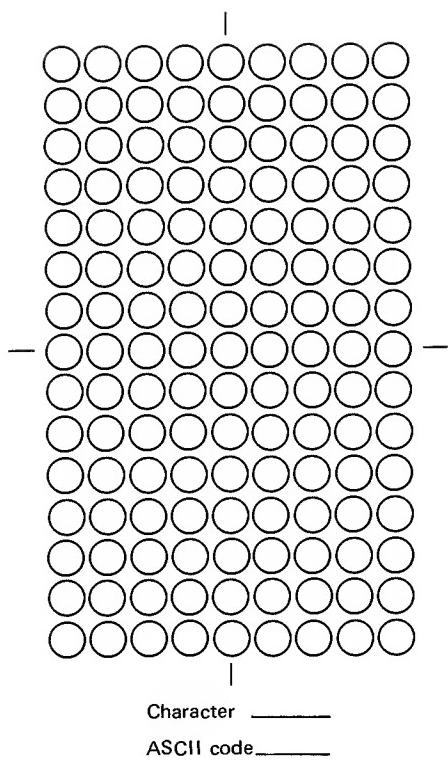
Character _____
ASCII code _____



Character _____
ASCII code _____

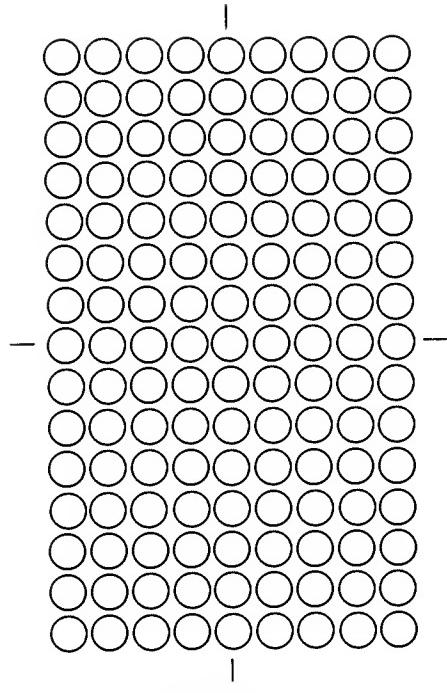


Character _____
ASCII code _____



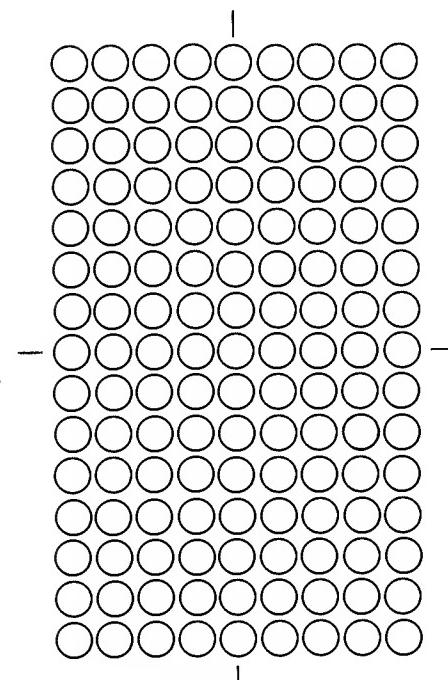
Character _____

ASCII code _____



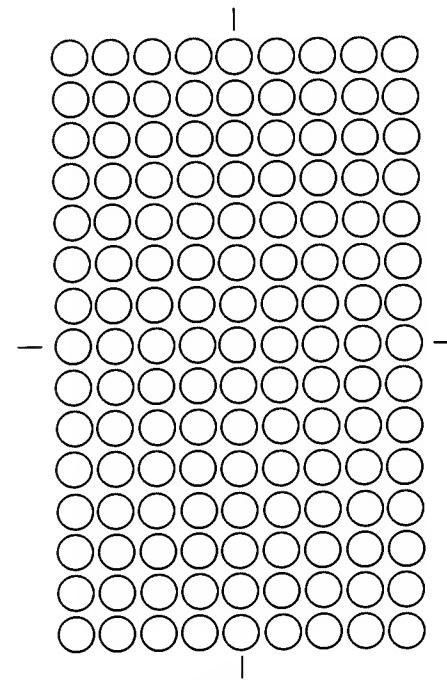
Character _____

ASCII code _____



Character _____

ASCII code _____



Character _____

ASCII code _____

APPENDIX B Microvector Character Worksheet

PROGRAMMING INFORMATION

REQUIRED INFORMATION FOR MMI TO PROGRAM TO YOUR TRUTH TABLE

TRUTH TABLES

MMI can program devices at our facility from MMI truth table forms (available on request). For customers desiring to make their own forms, an example is shown below:

WORD NUMBER	PIN →	OUTPUTS							
		17	16	15	14	13	11	10	9
0	O8	O7	O6	O5	O4	O3	O2	O1	
	H	H	H	L	H	L	H	H	
1	L	H	L	H	L	H	L	H	
.	
511	L	H	H	H	H	H	H	H	L

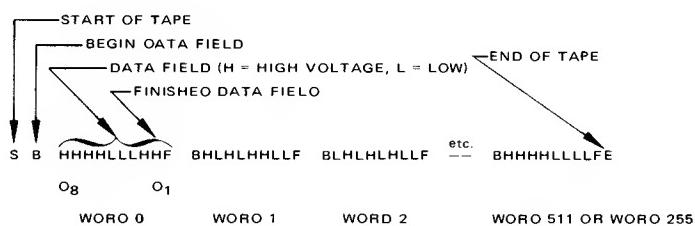
Note: A high voltage on the data out lines is signified by an "H." A low voltage on the data out lines is signified by an "L." The word number assumes positive logic on the address pins, so for example, word 511 = HHHHHHHH.

PAPER TAPE FORMAT

Truth tables can also be sent to MMI in an ASCII tape format. Information can be sent to us by air mail or TWX 910-339-9224. The tape reading equipment at MMI only recognizes ASCII characters S, B, H, L, F and E and interprets them respectively as Start, Begin a word, High data, Low data, Finish a word, and End of tape. All other characters such as carriage returns, line feeds, etc. are ignored so that comments and spaces may be sent in the data field to improve readability. Comments, however, should not use the characters S, B, H, L, F, E. Word addresses must begin with zero and count sequentially to word 511.

In order to assist the machine operator in determining where the heading information stops and the data field begins, 25 bell characters or rubout characters should precede the start of the truth table. Any type of paper tape (mylar, fanfold, etc.) is acceptable. Channel 1 is the most significant bit and channel 8 (parity) is ignored. Sprocket holes are located between channels 3 and 4. Note that the order of the outputs between characters B and F is O8 to O1, not O1 to O8.

A typical list of characters and their machine interpretations is shown on the next page.



The required heading information at the beginning of the tape is as follows:

CUSTOMER'S NAME AND PHONE _____ TRUTH TABLE NUMBER _____
 CUSTOMER'S TWX NUMBER _____ NUMBER OF TRUTH TABLES _____
 PURCHASE ORDER NUMBER _____ TOTAL NUMBER OF PARTS _____
 MMI PART NUMBER _____ NUMBER OF PARTS OF EACH TRUTH TABLE _____
 CUSTOMER SYMBOLIZED PART NUMBER _____ 25 BELL OR RUBOUT CHARACTERS _____

An example is shown below for a 256 x 4 PROM (6300)

BLARNEY ELECTRONICS 408-735-8104

TWX 911-338-9225

PO142

6300

0431

12

1

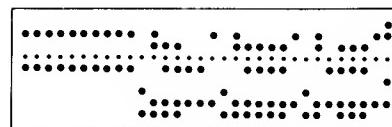
3

3

SBLLLHF BLLLLF BLHLHF BLHHHF BLLHHF BHHHHF BLLLF BLHLHF BLLLF

BLLLHF BLHLHF BLLHHF BHHHLF BHLLLF BLLHF BHLLLF BLHHHF BLHLHF

8 level
TWX



Input Format

I. ROM and PROM Truth Table Format

Programming information should be sent in the form of computer punched cards or punched paper tape. When using the 7600C or MCS programmers, punched paper tape should be used. In all cases, a printout of the truth table should be accompanied with the order.

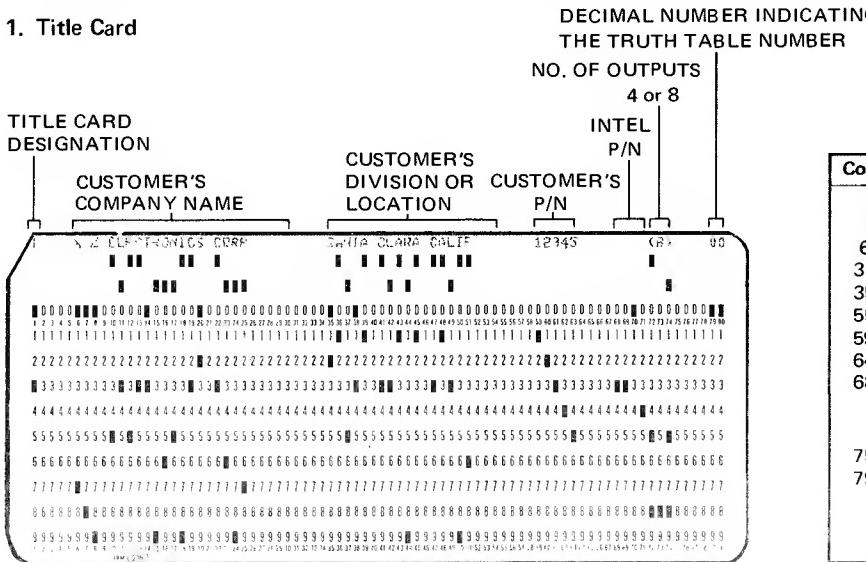
The following general format is applicable to the programming information sent to Intel:

1. A data field should start with the most significant bit and end with the least significant bit.
 2. The data field should consist of P's and N's. A P is to indicate a high level output (most positive) and an N a low level output (most negative). If the programming information is sent on a punched paper tape, then a start character, B, and an end character, F, must be used in the data field.

A. PUNCHED CARD FORMAT

An 80 column Hollerith card (preferably interpreted) punched by an IBM 026 or 029 keypunch should be submitted. The first card will be a title card. The format is as follows:

1. Title Card



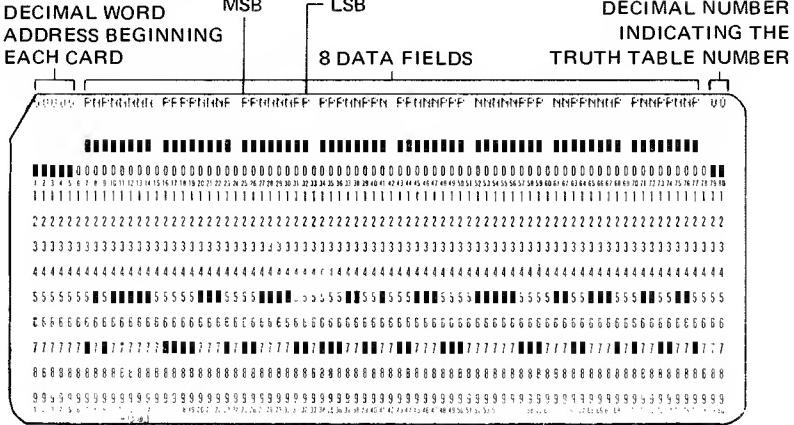
Column	Data
1	Punch a T
2-5	Blank
6-30	Customer Company Name
31-34	Blank
35-54	Customer's Company Division or location
55-58	Blank
59-63	Customer Part Number
64-67	Blank
68-74	Punch the Intel 4 digit basic part number and in () the number of output bits, e.g. 3604(8).
75-78	Blank
79-80	Punch a 2 digit decimal number to identify the truth table number. The first truth table will be 00, second 01, third 03, etc.

Input Format

2. For a 512 word x 8 bit organization, cards 2

and the following cards should be punched as shown:
Each card specifies the 4 bit output of 14 words.

Each card specifies the full output of the program.



Column	Data
1-5	Punch the 5 digit decimal equivalent of the binary coded location which begins each card. The address is right justified, i.e., 00000, 00008, 00016, etc.
6	Blank
7-14	Data Field
15	Blank
16-23	Data Field
24	Blank
25-32	Data Field
33	Blank
34-41	Data Field
42	Blank
43-50	Data Field
51	Blank
52-59	Data Field
60	Blank
61-68	Data Field
69	Blank
70-77	Data Field
78	Blank
79-80	Punch same 2 digit decimal number as in title card.

B. PAPER TAPE FORMAT

The paper tapes which should be used are the:

1. 1" wide paper tape using 7 or 8 bit ASCII code, such as a model 33 ASR teletype produces, or the
2. 11/16" wide paper tape using 5 bit Baudot code, such as a Telex produces.

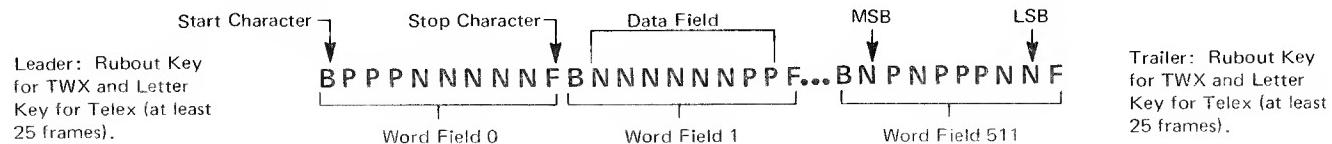
The format requirements are as follows:

1. All word fields are to be punched in consecutive order, starting with word field 0 (all addresses low). There must be exactly 512 word fields for the 512 x 8 PROM organization.
2. Each word field must begin with the start character B and end with the stop character F. There must be exactly 8 or 4 data characters between the B and F for the N x 8 or N x 4 organization respectively.

NO OTHER CHARACTERS, SUCH AS RUBOUTS, ARE ALLOWED ANYWHERE IN A WORD FIELD. If in preparing a tape, an error is made, the entire word field, including the B and F must be rubbed out. Within the word field, a P results in a high level output, and an N results in a low level output.

3. Preceding the first word field and following the last word field, there must be a leader/trailer length of at least 25 characters. This should consist of rubout punches (letter key for Telex tapes)
4. Between word fields, comments not containing B's or F's may be inserted. Carriage return and line feed characters should be inserted (as a "comment") just before each word field (or at least between every four word fields). When these carriage returns, etc. are inserted, the tape may be easily listed on the teletype for purposes of error checking. The customer may also find it helpful to insert the word number (as a comment) at least every four word fields.
5. Included in the tape before the leader should be the customer's complete Telex or TWX number and if more than one pattern is being transmitted, the ROM pattern number.
6. MSB and LSB are the most and least significant bit of the device outputs. Refer to the data sheet for the pin numbers.

Example of 512 x 8 format (N = 512):



BASIC ROMAN CHARACTER SET (SPACE)-? (40-77R)

	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7		
0		0		0		0		0		0		0		0		0		0		0		0			
1		1	X X		1	X X		1		1	X X		1	X X		1		1	X X		1	X X			
2		2	X X		2	X X		2		2	X X		2	X X		2		2	X X		2	X X			
3		3	X X		3	X X		3		3	X X		3	X X		3		3	X X		3	X X			
4		4	X X		4	X X		4		4	X X		4	X X		4		4	X X		4	X X			
5		5	X X		5	X X		5		5	X X		5	X X		5		5	X X		5	X X			
6		6	X X		6	X X		6		6	X X		6	X X		6		6	X X		6	X X			
7		7						7		7					7		7	X X		7	X X		7	X X	
8		8						8		8					8		8	X X		8	X X		8	X X	
9		9	X X					9		9	X X				9		9	X X		9	X X		9	X X	
10		10						10		10					10		10								
11		11						11		11					11		11								
12		12						12		12					12		12								
13		13						13		13					13		13								
14		14						14		14					14		14								
	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7		
0		0		0		0		0		0		0		0		0		0		0		0			
1		X		1	X X		X		1		X X		1	X X		1		1	X X		1	X X			
2		X X X		2	X X X		X X		2		X X		2	X X		2		2	X X		2	X X			
3		X X X		3	X X X		X X		3		X X		3	X X		3		3	X X		3	X X			
4		X X		4		X		4		X X		4	X X		4		4	X X		4	X X				
5		X X X		5		X		5		X X		5	X X		5		5								
6		X X X		6		X		6		X X		6	X X		6		6								
7		X X X		7		X X X		7		X X X		7	X X X		7		7								
8		X X X		8		X X X		8		X X X		8	X X X		8		8								
9		X		9		X X		9		X X		9	X X		9		9								
10		10						10		10					10		10								
11		11						11		11					11		11								
12		12						12		12					12		12								
13		13						13		13					13		13								
14		14						14		14					14		14								
	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7		
0		0		0		0		0		0		0		0		0		0		0		0			
1		X X		1	X X				1						1		1								
2		X X		2	X X				2						2		2								
3		X X		3	X X				3		X X		3	X X		3		3	X						
4		X X		4	X X				4		X X		4	X X		4		4	X						
5		X X		5	X X				5		X X		5	X X		5		5	X X X X X		5	X X X X X			
6		X X		6	X X				6		X X		6	X X		6		6	X						
7		X X		7	X X				7		X X		7	X X		7		7	X						
8		X X		8		X X		8		X X		8	X X		8		8								
9		X		9		X X		9		X X		9	X X		9		9		X						
10		X		10				10		10					10		10								
11		X		11				11		11					11		11								
12		12						12		12					12		12								
13		13						13		13					13		13								
14		14						14		14					14		14								
	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7		
0		0		0		0		0		0		0		0		0		0		0		0			
1		1		1		1		1		1		1		1		1		1		1		1			
2		2		2		2		2		2		2		2		2		2		2		2			
3		3		3		3		3		3		3		3		3		3		3		3			
4		4		4		4		4		4		4		4		4		4		4		4			
5		5		X X X X X				5		X X X X X		5	X X X X X		5		5		X						
6		6						6							6		6		X						
7		7						7							7		7		X						
8		X X						8		X X					8		8		X						
9		X						9		X X					9		9		X						
10								10							10		10								
11		X						11							11		11								
12								12							12		12								
13								13							13		13								
14								14							14		14								

	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7
0								0							0									0							
1		X	X	X				1			X				1		X	X	X				1		X	X	X	X			
2		X		X				2		X	X				2		X		X			2		X			X				
3		X		X				3		X	X				3		X			X			3					X			
4		X		X				4		X					4				X			4					X				
5		X		X				5		X					5			X	X			5			X	X	X				
6		X		X				6		X					6			X				6				X					
7		X		X				7		X					7		X					7					X				
8		X		X				8		X					8		X					8		X			X				
9		X	X	X				9		X					9		X	X	X	X	X	9		X	X	X	X				
10								10							10							10									
11								11							11							11									
12								12							12							12									
13								13							13							13									
14								14							14							14									
	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7
0								0							0								0								
1								1		X	X	X	X	X	1		X	X	X	X	X	1		X	X	X	X	X	X		
2				X	X			2		X					2		X			X		2					X				
3			X	X				3		X					3		X					3					X				
4			X	X				4		X					4		X					4					X				
5			X	X				5		X	X	X	X	X	5		X	X	X	X	X	5					X				
6			X	X	X	X	X	6							6		X	X				6					X				
7			X					7							7		X					7					X				
8			X					8		X					8		X					8					X				
9			X					9		X	X	X	X	X	9		X	X				9					X				
10								10							10							10					X				
11								11							11							11					X				
12								12							12							12									
13								13							13							13									
14								14							14							14									
	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7
0								0							0								0								
1		X	X	X	X			1		X	X	X	X	X	1							1									
2		X				X		2		X					2							2									
3		X				X		3							3							3									
4		X				X		4		X	X	X	X	X	4			X	X			4					X				
5		X				X		5							5			X	X			5					X				
6		X				X		6		X	X	X	X	X	6			X	X			6					X				
7		X				X		7							7			X	X			7					X				
8		X				X		8							8			X	X			8					X				
9		X				X		9							9			X	X			9					X				
10								10							10							10									
11								11							11							11									
12								12							12							12									
13								13							13							13									
14								14							14							14									

BASIC ROMAN CHARACTER SET (SPACE)-? (40-77B)

01234567	01234567	01234567	01234567
0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH
1 HHHHHHHHH	1 LHHLLHHH	1 LLLLHLLH	1 HHHHHHHHH
2 HHHHHHHHH	2 LHHLLHHH	2 LLLLHLLH	2 LHHHLHLH
3 HHHHHHHHH	3 LHHLLHHH	3 LLLLHLLH	3 HHHHLHLH
4 HHHHHHHHH	4 LHHLLHHH	4 LLLLHLLH	4 LHLLLLLH
5 HHHHHHHHH	5 LHHLLHHH	5 HHHHHHHHH	5 HHHLHLHH
6 HHHHHHHHH	6 LHHLLHHH	6 HHHHHHHHH	6 LLLLLLHH
7 HHHHHHHHH	7 HHHHHHHHH	7 HHHHHHHHH	7 HHLHLHHHH
8 HHHHHHHHH	8 HHHHHHHHH	8 HHHHHHHHH	8 LLHLHHHHH
9 HHHHHHHHH	9 LHHLLHHH	9 HHHHHHHHH	9 HHHHHHHHH
10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH
11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH
12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH
13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH
14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH
15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH
	01234567	01234567	01234567
0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH
1 HHHHLHLH	1 MHLLHLH	1 HHHHHHHHH	1 LHHHLLLH
2 HHHLHLHH	2 LLHLHLHH	2 LLLLHLLH	2 HHHLHLHH
3 HHLHLHLH	3 HHLLHLHH	3 HHHLHLHH	3 LHHLLHHH
4 HHLHLHLH	4 LHHHLHHH	4 LHLHLHHH	4 HHLLLHHH
5 HHHLLLHH	5 HHHLHHH	5 HHLLHHH	5 HHHHHHHHH
6 HHHHLHLH	6 LHHLHHHH	6 LHLHLHLH	6 HHHHHHHHH
7 HHLHLHLH	7 HHHLHLHH	7 HHLHLHLH	7 HHHHHHHHH
8 HHHLLLHH	8 LHLHLHLH	8 LHLHLHLH	8 HHHHHHHHH
9 HHHLMLHH	9 HHLHLHLH	9 HHHLHLHH	9 HHHHHHHHH
10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH
11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH
12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH
13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH
14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH
15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH
	01234567	01234567	01234567
0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH
1 LHHHLHLH	1 LHLLHHHH	1 HHHLHLHH	1 HHHHHHHHH
2 HHHLLLHH	2 HHHLHLHH	2 HHHLHLHH	2 HHHHHHHHH
3 LHLHLHHH	3 LHHHLHLH	3 HHHLHLHH	3 HHHHLHLH
4 HHLLHHHH	4 HHHLHLHH	4 LHLHLHHH	4 HHHLHLHH
5 HHLLHHHH	5 HHHLHLHH	5 HHLLHLHH	5 HHLLLLHH
6 HHLLHHHH	6 HHHLHLHH	6 LHHLLHHH	6 HHHLHLHH
7 LHLHLHHH	7 LHHHLHLH	7 HHHLHLHH	7 HHHHLHLH
8 HHHLLLHH	8 HHHLHLHH	8 HHHLHLHH	8 HHHHLHLH
9 LHHHLHLH	9 LHHHLHLH	9 HHHLHLHH	9 HHHHLHLH
10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH
11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH
12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH
13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH
14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH
15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH
	01234567	01234567	01234567
0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH
1 HHHHHHHHH	1 HHHHHHHHH	1 HHHHHHHHH	1 HHHHHHLH
2 HHHHHHHHH	2 HHHHHHHHH	2 HHHHHHHHH	2 LHHHHHLH
3 HHHHHHHHH	3 HHHHHHHHH	3 HHHHHHHHH	3 HHHLHLHH
4 HHHHHHHHH	4 HHHHHHHHH	4 HHHHHHHHH	4 LHHHLHLH
5 HHHHHHHHH	5 HHLLLLHH	5 HHHHHHHHH	5 HHHLHLHH
6 HHHHHHHHH	6 HHHLHLHH	6 HHHLHLHH	6 LHHLHHHH
7 HHHHHHHHH	7 HHHLHLHH	7 HHHLHLHH	7 HHLHLHHH
8 LHHHLHLH	8 HHHLHLHH	8 LHHHLHLH	8 LHLHLHHH
9 HHHLHLHH	9 HHHLHLHH	9 LHHHLHLH	9 HHLHLHHH
10 LHHHLHLH	10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH
11 HHHLHLHH	11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH
12 HHHHLHHH	12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH
13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH
14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH
15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH

01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 HHHLLLHH	1 HHHLLLHH	1 HHHLLLHH	1 LLHLLLHH
2 LHLHHLHH	2 HHHLHHHH	2 HHHLHHHL	2 LLHHHHMLH
3 HHLHHHLH	3 HHHLHLHH	3 LLHHHHHLH	3 HHHHHHHH
4 HHLHHHLH	4 HHHHLHHH	4 LHHHHHLH	4 LHHHHHHH
5 HHLHHHLH	5 HHHHLHHH	5 LHHHLHHH	5 LHMLLHH
6 HHLHHHLH	6 HHHHLHHH	6 HHHLHHHH	6 LHHHHHLH
7 HHLHHHLH	7 HHHHLHHH	7 HHHLHHHH	7 HHHHHHHH
8 LHLHHLHH	8 HHHLHLHH	8 LLHHHHHH	8 LLHHHHHLH
9 HHHLLLHH	9 HHHLHLHH	9 LLLLLLH	9 LHLLLLHH
10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 LHHHHLHH	1 LLLLLLH	1 LHLLLLHH	1 LLLLHLLH
2 LHHHLHHH	2 LHHHHHHH	2 LLHHHLH	2 LHHHHHLH
3 LHLHLHH	3 LHHHHHHH	3 HLHHHHHH	3 HHHHHHLH
4 LHLHLHH	4 LHHHHHHH	4 HLHHHHHH	4 LHHHLHHH
5 LLHHHLHH	5 LLLLLLH	5 HLHLHHH	5 HHHLHLHH
6 LLLLLLH	6 LHHHHHLH	6 HLLHHHHL	6 LHHHLHHH
7 LHHHHLHH	7 LHHHHHLH	7 HLHHHHHL	7 HHHLHLHH
8 LHHHHLHH	8 LLHHHHHL	8 LLHHHHHL	8 LHHHLHHH
9 LHHHHLHH	9 HLLLLHH	9 LHLLLLHH	9 HHHLHHH
10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 LHLLLLHH	1 LHLLLLHH	1 HHHHHHHH	1 HHHHHHHH
2 LLHHHHHLH	2 LLHHHHHL	2 HHHHHHHH	2 HHHHHHHH
3 HLHHHHHL	3 HLHHHHHL	3 HHHHHHHH	3 HHHHHHHH
4 LLHHHHHL	4 HLHHHHHL	4 LHLLLHHH	4 LHLLHHHH
5 LHLLLHH	5 HLLLLHL	5 LHLLLHHH	5 LHHLLHHH
6 LLHHHHHLH	6 HHHHHHHH	6 HHHHHHHH	6 HHHHHHHH
7 HLHHHHHL	7 HHHHHHHH	7 HHHHHHHH	7 HHHHHHHH
8 LLHHHHHLH	8 LLHHHHHL	8 LHLLLHHH	8 LHHLLHHH
9 LHLLLHHH	9 LHLLLHHH	9 LHLLLHHH	9 HHHLHHH
10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH	10 LHHHLHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH	11 HHHLHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 HHHHHHHH	1 HHHHHHHH	1 HHHHHHHH	1 HHHLLLHH
2 HHHHHHLH	2 HHHHHHHH	2 HHLLHHHH	2 HHLLHHHLH
3 HHHHLHHH	3 HHHHHHHH	3 HHHLHHHH	3 HHLHHHLH
4 HHHLHHHH	4 HHHLHHH	4 HHHLHHHH	4 LHHHLHHH
5 HHLLHHHH	5 HHHHHHHH	5 HHHLHHHH	5 LHHHLHHH
6 HHHLHHHH	6 HLLLLLH	6 HHHLHHHH	6 HHHLHHHH
7 HHHLHHHH	7 HHHHHHHH	7 HHHLHHHH	7 HHHLHHHH
8 HHHLHHHH	8 HHHHHHHH	8 HHHLHHHH	8 HHHLHHHH
9 HHHLHHHH	9 HHHHHHHH	9 HHHLHHHH	9 HHHLHHHH
10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH

BASIC ROMAN CHARACTER SET

HEWLETT-PACKARD CO.

(SPACE)-? (40-77B)

MMI 4K PROM FORMAT

GGGGGGGGGGGGGGGGGGGGGGGGGG

0-	3	S	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
4-	7		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
8-	11		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
12-	15		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
16-	19		BHHHHHHHHF	BHHHLLHHLF	BHHHLLHHLF	BHHHLLHHLF
20-	23		BHHHLLHHLF	BHHHLLHHLF	BHHHLLHHLF	BHHHHHHHHF
24-	27		BHHHHHHHHF	BHHHLLHHLF	BHHHHHHHHF	BHHHHHHHHF
28-	31		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
32-	35		BHHHHHHHHF	BHLLHHLLL	BHLLHHLLL	BHLLHHLLL
36-	39		BHLLHHLLL	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
40-	43		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
44-	47		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
48-	51		BHHHHHHHHF	BHHHHHHHHF	BHLHLHHHL	BHLHLHHHF
52-	55		BHLHLHHHL	BHHLHLHHMF	BHHLHLHHLF	BHHLHLHHHF
56-	59		BHHLHLHHLF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
60-	63		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
64-	67		BHHHHHHHHF	BHHHLHHHHF	BHHHLHHHF	BHLHLHLHHF
68-	71		BHHHLHLHHF	BHHLLHHHHF	BHLHLHHHF	BHLHLHLHHF
72-	75		BHHLLHHHF	BHHHLHHHHF	BHHHHHHHHF	BHHHHHHHHF
76-	79		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
80-	83		BHHHHHHHHF	BHLHLHHHF	BHLHLHHLF	BHLHLHHHF
84-	87		BHLHLHHHL	BHHHLHHHHF	BHHHLHHHF	BHLHLHHHF
88-	91		BHLHLHLH	BHLLHLHHHF	BHHHHHHHHF	BHHHHHHHHF
92-	95		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
96-	99		BHHHHHHHHF	BHHHHHHHHF	BHHHLHHLF	BHHHLHLHHF
100-	103		BHHHLHHLF	BHHHLHHHF	BHLHLHLHF	BHLHLHLHF
104-	107		BHLHLHLHF	BHLHLHHHF	BHHHHHHHHF	BHHHHHHHHF
108-	111		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
112-	115		BHHHHHHHHF	BHHLLHHHF	BHHLLHHHF	BHHHLHHHF
116-	119		BHHHLHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
120-	123		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
124-	127		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
128-	131		BHHHHHHHHF	BHHLLHHHF	BHHHLHHHF	BHHHLHHHF
132-	135		BHHHHMLHHF	BHHHLHHHF	BHHHHHLHHF	BHHHHHLHHF
136-	139		BHHHLHHHF	BHHHLHHHF	BHHHHHHHHF	BHHHHHHHHF
140-	143		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
144-	147		BHHHHHHHHF	BHHHLHHHF	BHHLLHHHF	BHHLLHHHF
148-	151		BHLLHHHHHF	BHLLHHHHF	BHLLHHHHF	BHLLHHHF
152-	155		BHLLHHHHF	BHHHLHHLF	BHHHHHHHHF	BHHHHHHHHF
156-	159		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
160-	163		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHLHLHHF
164-	167		BHHHLHHHF	BHLLHLHHHF	BHHHLHHHF	BHLHLHHHF
168-	171		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
172-	175		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
176-	179		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHLHHHHF
180-	183		BHHHLHHHF	BHLLHHHF	BHHHLHHHF	BHHHLHHHF
184-	187		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
188-	191		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
192-	195		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
196-	199		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
200-	203		BHHHLHHHF	BHHLHHHHF	BHHHLHHHF	BHHHLHHHF
204-	207		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
208-	211		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
212-	215		BHHHHHHHHF	BHLLHHHF	BHHHHHHHHF	BHHHHHHHHF
216-	219		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
220-	223		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
224-	227		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
228-	231		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
232-	235		BHHHLHHHF	BHHHLHHHF	BHHHHHHHHF	BHHHHHHHHF
236-	239		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
240-	243		BHHHHHHHHF	BHLHHHHHF	BHLHHHHLF	BHLHHHHHF
244-	247		BHHHLHHHF	BHHHLHHHF	BHHHLHHLF	BHHHLHHHF
248-	251		BHHHHHLHHF	BHHHHHLHHF	BHHHHHHHHF	BHHHHHHHHF
252-	255		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF

256-259	BHHHHHHHHHF	BHHLLLHHHF	BHHLHHHLHF	BHLHHHLHHF
260-263	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF
264-267	BHHLHHLHLF	BHHLLLHHHF	BHHHHHHHHF	BHHHHHHHHHF
268-271	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF
272-275	BHHHHHHHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHLHHF
276-279	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
280-283	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHF	BHHHHHHHHHF
284-287	BHHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF
288-291	BHHHHHHHHHF	BHHLLLHHHF	RHLHHHLHF	BHLHHHLLF
292-295	BHLHHHHHLF	BHHLLHHHLF	BHHHHLHHHF	BHHHHHLHHF
296-299	BHHHHHHHLF	BHLLLLLHF	BHHHHHHHHF	BHHHHHHHHHF
300-303	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF
304-307	BHHHHHHHHHF	BHHLLLHLHF	BHLHHHHHLF	BLHHHHHHHF
308-311	BHLHHHHHLF	BHHLLLHLHF	BHLHHHHHLF	BLHHHHHHHF
312-315	BHLHHHHHLF	BHHLLLHLF	BHHHHHHHHF	BHHHHHHHHHF
316-319	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF
320-323	BHHHHHHHHHF	BHHLHHHHHLF	BHHLLHHHLF	BHHLHLHHLF
324-327	BHHLHHHLHF	BHHLHHHLHF	BHLLLHLF	BHHLHHHHLF
328-331	BHHLHHHHHLF	BHHLHHHHHF	BHHHHHHHHF	BHHHHHHHHHF
332-335	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF
336-339	BHHHHHHHHHF	BHLLLLLHF	BHHHHHHLF	BHHHHHHHLF
340-343	BHHHHHHHLF	BHLLLLLHF	BHLHHHHHLF	BHLHHHHHLF
344-347	BHLHHHHHLF	BHLLLLLHF	BHHHHHHHF	BHHHHHHHHHF
348-351	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF
352-355	BHHHHHHHHHF	BHHLLLHLF	BHLHHHHHLF	BHHHHHHHLHF
356-359	BHHHHHHHLF	BHLLLHLHF	BLHHHHHLHF	BLHHHHHLHF
360-363	BHLHHHHHLF	BHLLLHLF	BHHHHHHHHF	BHHHHHHHHHF
364-367	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF
368-371	BHHHHHHHHHF	BHLLLLLHF	BHLHHHHHLF	BHLHHHHHHHF
372-375	BHHLHHHLHF	BHHLHHHHHF	BHHHLHHHLF	BHHHLHHHHF
376-379	BHHHHLHLHF	BHHHHLHHHF	BHHHHHHHHF	BHHHHHHHHHF
380-383	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF
384-387	BHHHHHHHHHF	BHLLLLLHF	BLHHHHHLF	BLHHHHHLHF
388-391	BHLHHHHHLF	BHLLLLLHF	BHLHHHHHLF	BLHHHHHLHF
392-395	BHLHHHHHLF	BHLLLLLHF	BHHHHHHHHF	BHHHHHHHHHF
396-399	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF
400-403	BHHHHHHHHHF	BHLLLHLHF	BHLHHHHHLF	BLHHHHHLHF
404-407	BLLHHHHHLF	BLHLLLHHHF	BLHHHHHHHF	BLHHHHHHHF
408-411	BHLHHHHHLF	BHLLLHLHF	BHHHHHHHHF	BHHHHHHHHHF
412-415	BHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF
416-419	BHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF
420-423	BHHHLHHLF	BHHHLHHLF	BHHHHHHHHF	BHHHHHHHHHF
424-427	BHHHLHHLF	BHHHLHHLF	BHHHHHHHHF	BHHHHHHHHHF
428-431	BHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF
432-435	BHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF
436-439	BHHHLHHLF	BHHHLHHLF	BHHHHHHHHF	BHHHHHHHHHF
440-443	BHHHLHHLF	BHHHLHHHF	BHHHLHHHLF	BHHHLHHHHF
444-447	BHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF
448-451	BHHHHHHHHF	BHHHHHHHHHF	BLHHHHHHHF	BHHLLHHHF
452-455	BHHHLHHHF	BHHHHHLHHF	BHHMLHHHF	BHLLLHHHF
456-459	BHLLHHHHHF	BHHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF
460-463	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF
464-467	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF
468-471	BHLLLHLHF	BHHHHHHHHHF	BHLLLHLHF	BHHHHHHHHHF
472-475	BHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF
476-479	BHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF
480-483	BHHHHHHHHF	BHHHHHHHHHF	BHHMHLLHHF	BHHHLHHHF
484-487	BHHLLHHHF	BHLHHHHHF	BHLHHHHHF	BHHHLHHHF
488-491	BHHHHLHHHF	BHHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF
492-495	BHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF
496-499	BHHHHHHHHF	BHLLLHHHF	BHLHHHLHF	BHLHHHLHF
500-503	BHHLHHHLHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
504-507	BHHHHHHHHF	BHHHLHHHF	BHHHHHHHHF	BHHHHHHHHHF
508-511	BHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF

E

BASIC ROMAN CHARACTER SET #-(UNDERLINE) (100-137B)

1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
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Ø							Ø							Ø							Ø						
1	X	X	X	X			1	X	X					1	X	X	X	X	X		1	X	X	X			
2	X			X			2	X	X					2	X				X		2	X			X		
3	X	X	X	X			3	X		X				3	X				X		3	X			X		
4	X	X	X	X			4	X		X				4	X			X			4	X					
5	X	X	X	X			5	X			X			5	X	X	X	X	X		5	X					
6	X	X	X	X			6	X	X	X	X	X		6	X				X		6	X					
7	X	X	X	X			7	X			X			7	X				X		7	X			X		
8	X			X	X		8	X			X			8	X			X			8	X			X		
9	X	X	X	X			9	X			X			9	X	X	X	X	X		9	X	X	X			
10							10							10							10						
11							11							11							11						
12							12							12							12						
13							13							13							13						
14							14							14							14						

1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
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Ø							Ø							Ø							Ø						
1	X	X	X	X	X		1	X	X	X	X	X		1	X	X	X	X	X		1	X	X	X			
2	X			X			2	X						2	X				X		2	X			X		
3	X			X			3	X						3	X				X		3	X			X		
4	X			X			4	X						4	X				X		4	X			X		
5	X	X	X	X	X		5	X	X	X	X			5	X	X	X	X			5	X			X		
6	X			X			6	X						6	X				X		6	X			X		
7	X			X			7	X						7	X				X		7	X			X		
8	X			X			8	X						8	X				X		8	X			X		
9	X	X	X	X	X		9	X	X	X	X			9	X	X	X	X			9	X	X	X			
10							10							10							10						
11							11							11							11						
12							12							12							12						
13							13							13							13						
14							14							14							14						

1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
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Ø							Ø							Ø							Ø						
1	X			X			1	X	X					1	X				X		1	X			X		
2	X			X			2	X						2	X				X		2	X			X		
3	X			X			3	X						3	X				X		3	X			X		
4	X			X			4	X						4	X				X		4	X			X		
5	X	X	X	X	X		5	X						5	X				X		5	X			X		
6	X			X			6	X						6	X				X		6	X			X		
7	X			X			7	X						7	X				X		7	X			X		
8	X			X			8	X						8	X				X		8	X			X		
9	X	X	X	X	X		9	X						9	X				X		9	X			X		
10							10							10							10						
11							11							11							11						
12							12							12							12						
13							13							13							13						
14							14							14							14						

1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
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Ø							Ø							Ø							Ø						
1	X						1	X						1	X	X	X	X	X		1	X	X	X	X	X	
2	X						2	X	X					2	X				X		2	X			X		
3	X						3	X	X	X				3	X	X	X	X	X		3	X			X		
4	X						4	X						4	X				X		4	X			X		
5	X						5	X						5	X				X		5	X			X		
6	X						6	X						6	X				X		6	X			X		
7	X						7	X						7	X				X		7	X			X		
8	X						8	X						8	X				X		8	X			X		
9	X	X	X	X	X		9	X						9	X				X		9	X	X	X	X	X	
10							10							10							10						
11							11							11							11						
12							12							12							12						
13							13							13							13						
14							14							14							14						

	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7	
0								0							0									
1	x	x	x	x	x			1	x	x	x	x	x	x	1	x	x	x	x	x	x	x		
2	x			x				2	x		x			x	2	x		x			x			
3	x		x					3	x			x			3	x			x			x		
4	x			x				4	x			x		x	4	x		x		x		x		
5	x	x	x	x	x			5	x	x	x	x	x	x	5	x	x	x	x	x	x	x		
6	x							6	x	x	x		x		6						x			
7	x							7	x	x	x		x		7						x			
8	x							8	x	x	x		x		8	x	x	x	x	x	x	x		
9	x							9	x	x	x	x	x	x	9	x	x	x	x	x	x	x		
10								10							10									
11															11									
12															12									
13															13									
14															14									
	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7	
0								0							0									
1	x	x	x	x	x	x		1	x		x		x		1	x		x		x		x		
2	x							2	x		x		x		2	x		x		x		x		
3	x							3	x			x			3	x			x		x		x	
4	x							4	x		x		x		4	x		x		x		x		
5	x							5	x		x		x		5	x		x		x		x		
6	x							6	x		x		x		6	x		x		x		x		
7	x							7	x		x		x		7	x		x	x	x	x	x		
8	x							8	x	x	x		x		8	x	x	x	x	x	x	x		
9	x							9	x	x	x	x	x	x	9	x	x	x	x	x	x	x		
10								10							10									
11															11									
12															12									
13															13									
14															14									
	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7	
0								0							0									
1	x		x					1	x		x		x		1	x	x	x	x	x	x	x		
2	x		x					2	x		x		x		2	x		x		x		x		
3	x	x						3	x	x	x		x		3	x		x		x		x		
4	x	x						4	x	x	x		x		4	x		x		x		x		
5	x							5	x		x		x		5	x		x		x		x		
6	x	x						6	x		x		x		6	x		x		x		x		
7	x	x						7	x		x		x		7	x		x		x		x		
8	x	x						8	x		x		x		8	x		x		x		x		
9	x	x						9	x		x		x		9	x	x	x	x	x	x	x		
10								10							10									
11															11									
12															12									
13															13									
14															14									
	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7	
0								0							0									
1	x							1	x	x	x		x		1	x	x	x	x	x	x	x		
2	x							2	x		x		x		2	x	x	x	x	x	x	x		
3	x							3	x		x		x		3	x	x	x	x	x	x	x		
4	x							4	x		x		x		4	x	x	x	x	x	x	x		
5	x							5	x		x		x		5	x		x		x		x		
6	x							6	x		x		x		6	x		x		x		x		
7	x							7	x		x		x		7	x		x		x		x		
8	x							8	x		x		x		8	x		x		x		x		
9	x	x						9	x	x	x		x		9	x	x	x	x	x	x	x		
10								10							10									
11															11	x	x	x	x	x	x	x		
12															12									
13															13									
14															14									

BASIC ROMAN CHARACTER SET R-(UNDERLINE) (100-1378)

01234567	01234567	01234567	01234567
0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH
1 LHLLLLLHH	1 LHHLLHHH	1 HLLLLLLH	1 HHHLLLLHH
2 HHLHHHHHLH	2 HHHLHLHH	2 HHLLHHHHHL	2 HHLHHHHHLH
3 LLHLLLHLH	3 LHLHLHHH	3 HHLLHHHHHL	3 LLHHHHHLH
4 HLHLHLHL	4 HHLLHHHLH	4 HHLLHHHHHL	4 LLHHHHHHH
5 HLHLHLHL	5 LLHHHHHLH	5 HLLLHHHHHL	5 LLHHHHHHH
6 HLHLLHL	6 LLLLLLH	6 HHLLHHHHHL	6 LLHHHHHHH
7 LLHHHHLLH	7 LLHHHHHLH	7 HHLLHHHHHL	7 LLHHHHHLH
8 HHLLHHHHH	8 LLHHHHHLH	8 HHLLHHHHHL	8 HHLLHHHLH
9 LHLLLLLHH	9 LLHHHHHLH	9 HLLLHHHHHL	9 HHHLLLLHH
10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH
11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH
12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH
13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH
14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH
15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH
	01234567	01234567	01234567
0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH
1 HLLLLLHH	1 LLLLLLH	1 LLLLLLH	1 HHLLLLHH
2 HHLHHHHHL	2 LLHHHHHHH	2 LLHHHHHHH	2 HHLHHHHHL
3 HHLLHHHHH	3 LLHHHHHHH	3 LLHHHHHHH	3 LLHHHHHHH
4 HHLLHHHHH	4 LLHHHHHHH	4 LLHHHHHHH	4 HLHHHHHHH
5 HHLLHHHHH	5 LLLLHHHH	5 LLLLHHHH	5 HLHHHLLL
6 HHLLHHHHH	6 LLHHHHHHH	6 LLHHHHHHH	6 HLHHHHHL
7 HHLLHHHHH	7 LLHHHHHHH	7 LLHHHHHHH	7 LLHHHHHLH
8 HHLLHHHHH	8 LLHHHHHHH	8 LLHHHHHHH	8 HHLLHHHLH
9 HLLLHHHH	9 LLLLLLH	9 LLHHHHHHH	9 HHHLLLHH
10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH
11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH
12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH
13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH
14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH
15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH
	01234567	01234567	01234567
0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH
1 LLHHHHHLH	1 HHHLLLHH	1 LHHHHHLH	1 LLHHHHHLH
2 LLHHHHHLH	2 HHHLHHHH	2 LHHHHHLH	2 LLHHHLHH
3 LLHHHHHLH	3 HHHLHHHH	3 LHHHHHLH	3 LLHHHLHH
4 LLHHHHHLH	4 HHHLHHHH	4 LHHHHHLH	4 LLHLHHHH
5 LLLLHHHH	5 HHHLHHHH	5 LHHHHHLH	5 LLLHHHHHH
6 LLHHHHHLH	6 HHHLHHHH	6 LHHHHHLH	6 LLHLHHHH
7 LLHHHHHLH	7 HHHLHHHH	7 LHHHHHLH	7 LLHHHLHH
8 LLHHHHHLH	8 HHHLHHHH	8 LHHHHHLH	8 LLHHHLHH
9 LLHHHHHLH	9 HHHLLLHH	9 LHHHHHLH	9 LLHHHLHH
10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH
11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH
12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH
13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH
14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH
15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH
	01234567	01234567	01234567
0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH
1 LLHHHHHHH	1 HLHHHHHL	1 LLHHHHHLH	1 HHLLLLHH
2 LLHHHHHHH	2 HLLHHHLH	2 LLHHHHHLH	2 LLHHHHHLH
3 LLHHHHHHH	3 HLHLHLHL	3 LLHHHHHLH	3 LLHHHHHLH
4 LLHHHHHHH	4 HLHLHLHL	4 LLHLHHHL	4 LLHHHHHLH
5 LLHHHHHHH	5 HLHLHLHL	5 LLHLHLH	5 LLHHHHHLH
6 LLHHHHHHH	6 HLHLHLHL	6 LLHHHHHLH	6 LLHHHHHLH
7 LLHHHHHHH	7 HLHHHHHL	7 LLHHHHHLH	7 LLHHHHHLH
8 LLHHHHHHH	8 HLHHHHHL	8 LLHHHHHLH	8 LLHHHHHLH
9 LLLLHHHH	9 HLHHHHHL	9 LLHHHHHLH	9 HHLLLLHH
10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH
11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH
12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH
13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH
14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH
15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH

01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 LLLLLLHH	1 HHLLLHHH	1 LLLLLLHH	1 LHLLLLHH
2 LLHHHHLH	2 HHLLHHHLH	2 LLHHHHLH	2 LLHHHHLH
3 LLHHHHHLH	3 LLHHHHHLH	3 LLHHHHHLH	3 LLHHHHHHH
4 LLHHHHHLH	4 LLHHHHHLH	4 LLHHHHHLH	4 LLHHHHHHH
5 LLLLLLHH	5 LLHHHHHLH	5 LLLLLLHH	5 LHLLLLHH
6 LLHHHHHH	6 LLHLHLH	6 LLHLHHHH	6 LHHHHHLH
7 LLHHHHHH	7 LLHHHLHH	7 LLHLHHHH	7 LHHHHHLH
8 LLHHHHHH	8 HHLLHHHL	8 LLHHHLHH	8 LLHHHHHLH
9 LLHHHHHH	9 HHLLLLHL	9 LLHHHHHLH	9 LHLLLLHH
10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 HLLLLLLL	1 LLHHHHHLH	1 HLHHHHHL	1 HLHHHHHL
2 HHHLHHHH	2 LLHHHHHLH	2 HLHHHHHL	2 HLHHHHHL
3 HHHLHHHH	3 LLHHHHHLH	3 HLHHHHHL	3 HLHHHHHL
4 HHHLHHHH	4 LLHHHHHLH	4 LLHHHHHLH	4 HLHLHLHL
5 HHHLHHHH	5 LLHHHHHLH	5 HHHLHHHL	5 HLHLHLHL
6 HHHLHHHH	6 LLHHHHHLH	6 HLHLHLHH	6 HLHLHLHL
7 HHHLHHHH	7 LLHHHHHLH	7 HHHLHLHH	7 HLHLHLHL
8 HHHLHHHH	8 HHLLHHHL	8 LHLLHHHH	8 HLLHHHL
9 HHHLHHHH	9 LHLLLLHH	9 HHHLHHHH	9 HLHHHHHL
10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 HHLHHHLH	1 LLHHHHHLH	1 HLLLLLLL	1 HHHLHHHH
2 LHLHHLHH	2 HHLHHHLH	2 HHHHHHHL	2 HHHLHHHH
3 HHHLHLHH	3 LHLLHLHH	3 HHHHHLHL	3 HHHLHHHH
4 LHHLLHHH	4 HHHLHLHH	4 HHHHHLHH	4 HHHLHHHH
5 HHHLHHHH	5 LHLLHLHH	5 HHHLHLHH	5 HHHLHHHH
6 LHHLLHHH	6 HHHLHLHH	6 HHHLHLHH	6 HHHLHHHH
7 HHHLHLHH	7 HHHLHLHH	7 HHHLHLHH	7 HHHLHHHH
8 LHLHHHLH	8 HHHLHLHH	8 HLHHHHHH	8 HHHLHHHH
9 HHHLHHHL	9 HHHLHLHH	9 HLLLLLLL	9 HHHLLLHH
10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 HHLHHHHH	1 HHHLLLHH	1 HHHLLLHH	1 HHHLHHHH
2 LHLHHHHH	2 HHHHHLHH	2 LHLLLLHH	2 HHHHHHHH
3 HHHLHHHH	3 HHHHHLHH	3 HHHLHLHH	3 HHHHHHHH
4 LHHHLHHH	4 HHHHHLHH	4 LLLHHHLH	4 HHHHHHHH
5 HHHLHHHH	5 HHHHHLHH	5 HHHHHHHH	5 HHHHHHHH
6 LHHHLHHH	6 HHHHHLHH	6 HHHHHHHH	6 HHHHHHHH
7 HHHLHHHH	7 HHHHHLHH	7 HHHHHHHH	7 HHHHHHHH
8 LHHHLHHH	8 HHHHHLHH	8 HHHHHHHH	8 HHHHHHHH
9 HHHLHHHH	9 HHHLLLHH	9 HHHHHHHH	9 HHHHHHHH
10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH	11 HLLLLLLL
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH

BASIC ROMAN CHARACTER SET

HEWLETT-PACKARD CO.

~-(UNDERLINE) (100-1378)

MMI 4K PROM FORMAT

GGGGGGGGGGGGGGGGGGGGGGGGGG

0- 3	S	BHHHHHHHHHF	BHHLLLLLHF	BHLHHHHLHF	BHLHLLHLLF
4- 7		BLHLHLHLHF	BLHLHLHLHF	BLHLLLHLHF	BHLHHHHLLF
8- 11		BHHHHHLHHHF	BHHLLLHLHF	BHHHHHHHHHF	BHHHHHHHHHF
12- 15		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
16- 19		BHHHHHHHHHF	BHHHLLHHLF	BHLHLHHHF	BHLHHLHLF
20- 23		BHLHHHLHHF	BHLHHHLLLF	BHLLLLLLF	BHLHHHHLLF
24- 27		BHLHHHHLLF	BHLHHHHLLF	BHHHHHHHHHF	BHHHHHHHHHF
28- 31		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
32- 35		BHHHHHHHHHF	BHLLLPLLHF	BLHHHHLHF	BLHHHHLHF
36- 39		BLHHHHLHF	BHLLLPLLHF	BLHHHHLHF	BLHHHHLHF
40- 43		BLHHHHLHHF	BHLLLPLLHF	BHHHHHHHHHF	BHHHHHHHHHF
44- 47		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
48- 51		BHHHHHHHHHF	BHLLLHHHF	BHLHHHLHF	BHLHHHHLLF
52- 55		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHLLF	BHLHHHHLLF
56- 59		BHLHHHLHF	BHLLLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
60- 63		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
64- 67		BHHHHHHHHHF	BHLLLPLLHF	BHLHHHLHF	BLHHHHLHF
68- 71		BLHHHHLHF	BLHHHHLHF	BLHHHHLHF	BLHHHHLHF
72- 75		BHLHHHLHF	BHLLLPLLHF	BHHHHHHHHHF	BHHHHHHHHHF
76- 79		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
80- 83		BHHHHHHHHHF	BHLLLPLLHF	BHHHHHHHLLF	BHHHHHHHLLF
84- 87		BHHHHHHHLLF	BHHHHLLPLLHF	BHHHHHHHLLF	BHHHHHHHLLF
88- 91		BHHHHHHHLLF	BHLLLPLLHF	BHHHHHHHHHF	BHHHHHHHHHF
92- 95		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
96- 99		BHHHHHHHHHF	BHLLLPLLHF	BHHHHHHHLLF	BHHHHHHHLLF
100-103		BHHHHHHHLLF	BHHHHLLPLLHF	BHHHHHHHLLF	BHHHHHHHLLF
104-107		BHHHHHHHLLF	BHHHHHHHLLF	BHHHHHHHHHF	BHHHHHHHHHF
108-111		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
112-115		BHHHHHHHHHF	BHLLLHHHF	BHLHHHLHF	BHHHHHHHLLF
116-119		BHHHHHHHLLF	BLLLHHHLHF	BLHHHHHLHF	BHLHHHHLLF
120-123		BHLHHHLHF	BHLLLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
124-127		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
128-131		BHHHHHHHHHF	BHLHHHHLLF	BHLHHHHLLF	BHLHHHHLLF
132-135		BHLHHHHLLF	BHLLLPLLHF	BHLHHHHLLF	BHLHHHHLLF
136-139		BHLHHHHLLF	BHLHHHHLLF	BHHHHHHHHHF	BHHHHHHHHHF
140-143		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
144-147		BHHHHHHHHHF	BHLLLHHHF	BHHHLHHHF	BHHHLHHHF
148-151		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
152-155		BHHHLHHHF	BHLLLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
156-159		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
160-163		BHHHHHHHHHF	BHLHHHHHLF	BHLHHHHHLF	BHLHHHHHLF
164-167		BHLHHHHHLF	BHLHHHHHLF	BHLHHHHHLF	BHLHHHHHLF
168-171		BHLHHHLHF	BHLLLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
172-175		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
176-179		BHHHHHHHHHF	BHLHHHHHLF	BHLHHHHHLF	BHHHLHHLLF
180-183		BHHHLHHLLF	BHHHHHLPLLHF	BHHHLHHLLF	BHHHLHHLLF
184-187		BHHLHHHLHF	BHLHHHHHLF	BHHHHHHHHHF	BHHHHHHHHHF
188-191		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
192-195		BHHHHHHHHHF	BHHHHHHHLLF	BHHHHHHHLLF	BHHHHHHHLLF
196-199		BHHHHHHHLLF	BHHHHHHHLLF	BHHHHHHHLLF	BHHHHHHHLLF
200-203		BHHHHHHHLLF	BHLLLPLLHF	BHHHHHHHHHF	BHHHHHHHHHF
204-207		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
208-211		BHHHHHHHHHF	BLHHHHHLHF	BLHHHHLLHF	BLHLHLHLHF
212-215		BLHLHLHLHF	BLHLHLHLHF	BLHHHLHLHF	BLHHHHHLHF
216-219		BLHHHHHLHF	BLHHHHHLHF	BHHHHHHHHHF	BHHHHHHHHHF
220-223		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
224-227		BHHHHHHHHHF	BHLHHHHHLF	BHLHHHHHLF	BHLHHHLLF
228-231		BHLHHHLHLF	BHLHHHLHLF	BHLHHHHHLF	BHLHHHLLF
232-235		BHLHHHHHLF	BHLHHHHHLF	BHHHHHHHHHF	BHHHHHHHHHF
236-239		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
240-243		BHHHHHHHHHF	BHLLLPLLHF	BHLHHHHHLF	BHLHHHLLF
244-247		BHLHHHHHLF	BHLHHHHHLF	BHLHHHHHLF	BHLHHHLLF
248-251		BHLHHHHHLF	BHLLLPLLHF	BHHHHHHHHHF	BHHHHHHHHHF
252-255		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF

256-259	BHHHHHHHHF	BHHLLLLLLF	BHLHHHHLLF	BHLHHHHLLF
260-263	BHLHHHHLLF	BHHLLLLLLF	BHHHHHHHLLF	BHHHHHHHLLF
264-267	BHHHHHHHLLF	BHHHHHHHLLF	BHHHHHHHHHF	BHHHHHHHHHF
268-271	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
272-275	BHHHHHHHHHF	BHLLLLHHHF	BHLHHHLHHF	BHLHHHHLLF
276-279	BHLHHHHLLF	BHLHHHHLLF	BHLHLHLLF	BHLHHHHLLF
280-283	BHLHHHLHHF	BHLLLLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
284-287	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
288-291	BHHHHHHHHHF	BHLLLLALLF	BHLHHHHHLLF	BHLHHHHHLLF
292-295	BHLHHHHLLF	BHLLLLALLF	BHHHLHLLF	BHHHLHLLF
296-299	BHHHLHLLF	BHLHHHHHLLF	BHHHHHHHHHF	BHHHHHHHHHF
300-303	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
304-307	BHHHHHHHHHF	BHLLLLHLF	BHLHHHHHLLF	BHHHHHHHLLF
308-311	BHHHHHHHLLF	BHLLLLHLF	BHLHHHHHLLF	BHLHHHHHLLF
312-315	BHLHHHHLLF	BHLLLLHLF	BHHHHHHHHHF	BHHHHHHHHHF
316-319	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
320-323	BHHHHHHHHHF	BLLLLLLLF	BHHHLHLLHF	BHHHLHLLHF
324-327	BHHHLHLLHF	BHHHLHLLHF	BHHHLHLLHF	BHHHLHLLHF
328-331	BHHHLHLLHF	BHHHLHLLHF	BHHHHHHHHHF	BHHHHHHHHHF
332-335	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
336-339	BHHHHHHHHHF	BHLHHHHHLLF	BHLHHHHHLLF	BHLHHHHHLLF
340-343	BHLHHHHLLF	BHLHHHHHLLF	BHLHHHHHLLF	BHLHHHHHLLF
344-347	BMLHHHLHHF	BHLLLLHLF	BHHHHHHHHHF	BHHHHHHHHHF
348-351	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
352-355	BHHHHHHHHHF	BLLHHHHHLHF	BLHHHHHLHF	BLHHHHHLHF
356-359	BHLHHHHLLF	BHLHHHLHHF	BHHHLHLLHF	BHHHLHLLHF
360-363	BHHHLHLLHF	BHHHLHLLHF	BHHHHHHHHHF	BHHHHHHHHHF
364-367	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
368-371	BHHHHHHHHHF	BLHHHHHLHF	BLHHHHHLHF	BLHHHHHLHF
372-375	BLHHHLHLLHF	BLHHHLHLLHF	BLHHHLHLLHF	BLHLHLHLLHF
376-379	BLLHHHLHLLHF	BLHHHHHLHF	BHHHHHHHHHF	BHHHHHHHHHF
380-383	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
384-387	BHHHHHHHHHF	BHLHHHLHHF	BHHHLHLLHF	BHHHLHLLHF
388-391	BHHHLHLLHF	BHHHLHLLHF	BHHHLHLLHF	BHHHLHLLHF
392-395	BHHHLHLLHF	BHLHHHLHHF	BHHHHHHHHHF	BHHHHHHHHHF
396-399	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
400-403	BHHHHHHHHHF	BHLHHHHHLLF	BHLHHHLHHF	BHLHHHLHLLF
404-407	BHHHLHLLHF	BHHHLHLLHF	BHHHLHLLHF	BHHHLHLLHF
408-411	BHHHLHLLHF	BHHHLHLLHF	BHHHHHHHHHF	BHHHHHHHHHF
412-415	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
416-419	BHHHHHHHHHF	BLLLLLLLF	BLHHHHHHHF	BHLHHHHHHHF
420-423	BHHHLHHHHHF	BHHHLHLLHF	BHHHHHLHHHF	BHHHHHLHHHF
424-427	BHHHHHHHLHF	BLLLLLLLF	BHHHHHHHHHF	BHHHHHHHHHF
428-431	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
432-435	BHHHHHHHHHF	BHLLLLHHHF	BHHHHHLHHHF	BHHHHHLHHHF
436-439	BHHHHHLHHHF	BHHHLHLLHF	BHHHHHLHHHF	BHHHLHLLHF
440-443	BHHHHHLHHHF	BHLLLLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
444-447	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
448-451	BHHHHHHHHHF	BHHHHHLHLLF	BHHHHHLHLLF	BHHHHHLHLLF
452-455	BHHHHHLHLLF	BHHHLHLLHF	BHHHLHLLHF	BHHHLHLLHF
456-459	BHHHLHHHHHF	BHLHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
460-463	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
464-467	BHHHHHHHHHF	BHLLLLHHHF	BHLHHHHHHHF	BHLHHHHHHHF
468-471	BHLHHHHHHHF	BHLHHHHHHHF	BHLHHHHHHHF	BHLHHHHHHHF
472-475	BHLHHHHHHHF	BHLLLLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
476-479	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
480-483	BHHHHHHHHHF	BHLLLLHHHF	BHLLLLHLHF	BHLLLLHLHF
484-487	BHLHHHLLLF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
488-491	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
492-495	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
496-499	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
500-503	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
504-507	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BLLLLLLLF
508-511	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF E

EXTENDED ROMAN CHARACTER SET, NULL-US (00-37B)

	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7	
0								0							0								0	
1	x		x					1	x	x	x	x			1	x	x	x	x				1	
2	x	x		x				2	x						2	x							2	
3	x	x	x		x			3	x	x	x	x			3	x	x	x					3	
4	x		x	x				4	x						4	x								4
5	x	x	x	x	x			5	x	x	x	x	x		5	x	x	x	x	x			5	
6		x	x					6	x		x	x			6	x		x	x				6	
7	x	x		x		x		7		x	x	x			7		x	x	x				7	
8	x	x		x		x		8		x	x	x			8		x	x	x				8	
9	x	x	x	x	x			9	x	x	x	x	x		9	x	x	x	x	x			9	
10								10							10									10
11															11									11
12															12									12
13															13									13
14															14									14
	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7	
0								0							0								0	
1	x	x	x	x				1	x	x	x	x			1	x		x	x				1	
2	x			x				2	x		x	x			2	x		x	x				2	
3	x	x	x			x		3	x	x	x				3	x		x	x				3	
4	x			x				4	x		x	x	x		4	x		x	x				4	
5	x	x	x	x	x	x		5	x	x	x	x	x		5	x		x	x	x			5	
6	x			x		x		6		x	x	x			6	x		x	x	x			6	
7	x		x	x		x		7		x	x	x			7	x	x	x	x	x			7	
8	x		x	x	x			8		x	x	x			8	x		x	x	x			8	
9	x		x	x	x	x		9		x	x	x			9	x		x	x	x			9	
10								10							10								10	
11															11								11	
12															12								12	
13															13								13	
14															14								14	
	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7	
0								0							0								0	
1	x	x	x	x				1	x		x				1	x		x					1	
2	x		x					2	x		x				2	x		x					2	
3	x	x	x	x		x		3	x	x	x				3	x		x	x				3	
4	x			x				4	x		x				4	x		x	x				4	
5	x	x	x	x	x	x		5	x	x	x	x	x		5	x	x	x	x	x			5	
6	x			x		x		6		x	x	x			6	x		x	x				6	
7	x	x	x		x	x		7		x	x	x			7	x	x	x	x				7	
8	x			x	x			8		x	x	x			8	x		x	x				8	
9	x		x	x	x			9		x	x	x			9	x		x	x				9	
10								10							10								10	
11															11								11	
12															12								12	
13															13								13	
14															14								14	
	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7	
0								0							0								0	
1	x	x	x	x				1	x	x	x	x			1	x		x	x	x			1	
2	x			x		x		2	x		x	x			2	x		x	x	x			2	
3	x	x	x			x		3	x	x	x	x			3	x	x	x	x	x			3	
4	x			x				4	x		x	x	x		4	x		x	x	x			4	
5	x	x	x	x	x	x		5	x	x	x	x	x		5	x	x	x	x	x	x		5	
6	x			x		x		6		x	x	x			6	x		x	x	x	x		6	
7	x	x	x		x	x		7		x	x	x			7	x	x	x	x	x			7	
8	x			x	x			8		x	x	x			8	x		x	x	x			8	
9	x		x	x	x			9		x	x	x			9	x		x	x	x			9	
10								10							10								10	
11															11								11	
12															12								12	
13															13								13	
14															14								14	

1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
∅							∅							∅						
1	x	x	x				1	x	x	x				1	x	x	x			
2	x		x				2	x		x				2	x		x			
3	x		x				3	x		x				3	x		x			
4	x		x				4	x		x				4	x		x			
5	x	x	x	x			5	x	x	x	x	x		5	x	x	x	x	x	
6		x					6		x	x				6					x	
7		x					7		x					7				x	x	
8		x					8		x					8				x		
9		x	x	x	x		9		x	x	x			9		x	x	x		
10		x	x	x	x		10							10						
11							11							11						
12							12							12						
13							13							13						
14							14							14						
1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
∅							∅							∅						
1	x	x	x				1	x		x				1	x	x	x			
2	x		x				2	x		x				2	x					
3	x		x				3	x	x	x				3	x	x				
4	x		x				4	x		x				4	x					
5	x	x	x	x			5	x	x	x	x	x		5	x	x	x	x	x	
6		x		x			6		x	x	x	x		6			x			
7		x	x				7		x	x	x	x		7			x			
8		x	x	x	x		8		x	x	x	x		8			x			
9		x	x				9		x	x	x	x		9		x	x	x		
10							10							10						
11							11							11						
12							12							12						
13							13							13						
14							14							14						
1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
∅							∅							∅						
1	x	x	x				1	x	x	x				1	x	x	x			
2	x		x				2	x		x				2	x					
3	x		x				3	x	x	x				3	x	x				
4	x		x				4	x		x				4	x					
5	x	x	x	x			5	x	x	x	x	x		5	x	x	x	x	x	
6		x		x			6		x	x	x	x		6			x			
7		x	x	x			7		x	x	x	x		7		x	x	x		
8		x		x			8		x	x	x	x		8			x			
9		x	x	x	x		9		x	x	x	x		9		x	x	x		
10							10							10						
11							11							11						
12							12							12						
13							13							13						
14							14							14						
1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
∅							∅							∅						
1	x	x	x	x			1	x	x	x				1	x		x			
2	x		x				2	x		x				2	x		x			
3	x	x	x				3	x	x	x				3	x		x			
4	x		x				4	x		x				4	x		x			
5	x	x	x	x	x		5	x	x	x	x	x		5	x	x	x	x	x	
6		x		x			6		x	x	x	x		6			x			
7		x	x	x			7		x	x	x	x		7		x	x	x		
8		x		x			8		x	x	x	x		8			x			
9		x	x	x	x		9		x	x	x	x		9		x	x	x		
10							10							10						
11							11							11						
12							12							12						
13							13							13						
14							14							14						

EXTENDED ROMAN CHARACTER SET, NULL-US (00-37B)

01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 HLHHHLHH	1 HLLLHHHH	1 HLLLHHHH	1 HLLLHHHH
2 HLLHHLHH	2 HLHHHHHH	2 HLHHHHHH	2 HLHHHHHH
3 HLHLHLHH	3 HLLLHHHH	3 HLLLHHHH	3 HLLLHHHH
4 HLHHHLHH	4 HHHHLHHH	4 HHHHLHHH	4 HLHHHHHH
5 HLHLHLHL	5 HLLLHL	5 HLLLHL	5 HLLLHL
6 HHHLHLHH	6 HHHHLHHL	6 LHHHLHHH	6 LHHHLHHH
7 HHHHLHLH	7 HHHHLLLL	7 HHHHLHHH	7 HHHHLHHH
8 HHHHLHLH	8 HHHHLHHL	8 LHHHLHHH	8 LHHHLHHH
9 HHHHLLLL	9 HHHHLHLH	9 HHHHLHLH	9 HHHHLHLH
10 HHHHHHHHH	10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH
11 HHHHHHHHH	11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH
12 HHHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH
13 HHHHHHHHH	13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH
14 HHHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 HLLLHHH	1 HLLLHHH	1 LHLHHHHH	1 LHLHLHHH
2 HLHHHHHH	2 HLHHHHHH	2 HLLLHHHH	2 LHLHLHHH
3 HLLLHHHH	3 HLLLHHHH	3 LLHLHHHH	3 HHLHHHLH
4 HLHHHHHH	4 HLHHHHHH	4 HLLLHHHH	4 HHLHHHLH
5 HLLLHL	5 HLLLHL	5 HLHLHL	5 HHLHHHLH
6 LHHHLHHH	6 HHHHLHHL	6 HHHHLHLH	6 LHHHHHLH
7 LHHHLHLH	7 HHHHLHLH	7 HHHHLHLH	7 HLLLHL
8 LHHHLHLH	8 HHHHLHLH	8 HHHHLHLH	8 HHHLHLHH
9 LHHHLHLH	9 HHHHLHLH	9 HHHHLHLH	9 LHHHLHHH
10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 HLLLHHH	1 HLHHHLHH	1 HLHHHHHH	1 HLHHHLHHH
2 HLHHHLHH	2 HLHHHLHH	2 HLHHHHHH	2 HLHHHLHHH
3 HLLLHHH	3 HLLLHHH	3 HLHHHHHH	3 LLHLHHHH
4 HLHLHHH	4 HLHLHHH	4 HLHHHHHH	4 HHLLHHHH
5 HLLLHL	5 HLLLHL	5 HLLLHL	5 LHLLLHL
6 HHHHLHHH	6 LHHHLHHH	6 HHHHLHHH	6 HHHHHHLH
7 HHHHLHLH	7 LHHHLHLH	7 HHHHLHLH	7 HHHHHHLH
8 HHHHLHLH	8 LHHHLHLH	8 HHHHLHLH	8 HHHLHLHH
9 HHHHLHLH	9 LHHHLHLH	9 HHHHLHLH	9 HHHHHHLH
10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 HLLLHHH	1 LLLLHHH	1 HLLLHHH	1 HLLLHHH
2 HLHHHHHH	2 HLHHHLHH	2 HLHHHHHH	2 HLHHHHHH
3 HLLLHHHH	3 HLHHHHHH	3 HLLLHHHH	3 HLLLHHHH
4 HLHHHHHH	4 HLHLHHH	4 HHHHLHHH	4 HHHHLHHH
5 HLHLHL	5 LLLLHL	5 HLLLHL	5 HLLLHL
6 HHHHLHHH	6 HHHHLHLH	6 HHHHLHLH	6 HHHHHHLH
7 HHHHLHLH	7 HHHHLHLH	7 HHHHLHLH	7 HHHHHHLH
8 HHHHLHLH	8 HHHHLHLH	8 HHHHLHLH	8 HHHHHHLH
9 HHHHLHLH	9 HHHHLHLH	9 HHHHLHLH	9 HHHHHHLH
10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH

01234567	01234567	01234567	01234567
0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH
1 HLLLHHHHH	1 HLLLHHHHH	1 HLLLHHHHH	1 HLLLHHHHH
2 HLHHLHHHH	2 HLHHLHHHH	2 HLHHLHHHH	2 HLHHLHHHH
3 HLHHHLHHH	3 HLHHHLHHH	3 HLHHHLHHH	3 HLHHHLHHH
4 HLHHHLHHH	4 HLHHHLHHH	4 HLHHHLHHH	4 HLHHHLHHH
5 HLLLLHHHH	5 HLLLLHHHH	5 HLLLLHHHH	5 HLLLLHHHH
6 HHHHLHHHH	6 HHHHLHHHH	6 HHHHLHHHH	6 LHHHHHLHH
7 HHHHHLHHH	7 HHHHHLHHH	7 HHHHHLHHH	7 HHHHHLHHH
8 HHHHHLHHH	8 HHHHHLHHH	8 HHHHHLHHH	8 LHHHHHLHH
9 HHHHLLLL	9 HHHHLLLL	9 LHHHLLLL	9 HHHHLLLL
10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH
11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH
12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH
13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH
14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH
15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH
1 HLLLHHHHH	1 HLHHLHHHH	1 HLLLHHHHH	1 HLLLHHHHH
2 HLHHLHHHH	2 HLHHLHHHH	2 HLHHHHHHH	2 HLHHHHHHH
3 HLHHHLHHH	3 HLHHHLHHH	3 HLLLLHHHH	3 HLLLHHHH
4 HLHHHLHHH	4 HLHHHLHHH	4 HHHHLHHHH	4 HLHHHHHHH
5 HLLLLHHHL	5 HLHHHLHHL	5 HLLLLHHHL	5 HLLLLLLL
6 HHHHLHHHH	6 HHHHLHLH	6 HHHHLHHHL	6 HHHHLHHHL
7 HHHHLHLH	7 HHHHLHLH	7 HHHHLHHH	7 HHHHLLLL
8 HHHHLLLL	8 HHHHLHLH	8 HHHHLHHH	8 HHHHLHHHL
9 HHHHHLHH	9 HHHHLHLH	9 HHHHLHHH	9 HHHHLLLL
10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH
11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH
12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH
13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH
14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH
15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH
1 LLLLHHHHH	1 HLLLHHHHH	1 HLLLHHHHH	1 HLLLHHHHH
2 HLHHLHHHH	2 HLHHHHHHH	2 HLHHHHHHH	2 HLHHHHHHH
3 HLHHHHHHH	3 HLLLHHHHH	3 HLLLHHHHH	3 HLLLHHHHH
4 HLHHHLHHH	4 HLHHHHHHH	4 HHHHLHHHH	4 HLHHHHHHH
5 LLLLHHHL	5 HLLLHHHL	5 HLLLLLLL	5 HLLLLLLL
6 LHHLHHHL	6 HHHLLHLL	6 HHHHLHHHL	6 LHHHLHHHH
7 LHHLHLHL	7 HHHHLHLH	7 HHHHLLLL	7 LHHHLHHHH
8 LHHLHLHL	8 HHHHLHHHL	8 HHHHLHHHL	8 LHHHLHHHH
9 LHHLHHHL	9 HHHHLHHHL	9 HHHHLLLL	9 HHHHLLLL
10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH
11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH
12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH
13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH
14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH
15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH
1 HLLLHHHH	1 HLLLHHHH	1 HLLLHHHH	1 HLHHLHHHH
2 HLHHHHHH	2 HLHHHHHH	2 HLHHLHHHH	2 HLHHLHHHH
3 HLLLHHHH	3 HLHILLHHH	3 HLLLHHHH	3 HLHHHLHHH
4 HLHHHHHH	4 HLHLHHHH	4 HLHLHHHH	4 HLHLHHHH
5 HLHLLLLL	5 HLLLLLLL	5 HLHLLLLL	5 HLLLLLLL
6 HHHLHHHH	6 HHHLHHHH	6 HHHLHHHH	6 HHHLHHHH
7 HHHHLLLL	7 HHHHLLLL	7 HHHHLLLL	7 HHHHLLLL
8 HHHHHHHH	8 HHHHHHHH	8 HHHHHHHH	8 HHHHHHHH
9 HHHHLLLL	9 HHHHLLLL	9 HHHHLLLL	9 HHHHLLLL
10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH

EXTENDED ROMAN CHARACTER SET, NULL-US (00-37B)

HEWLETT-PACKARD CO.

NULL-US (00-37B)

MMI 4K PROM FORMAT

GGGGGGGGGGGGGGGGGGGGGGGGGGGG

0- 3	S	BHHHHHHHHHF	BHHLHHHLHF	BHHLHHLLHF	BHHLHLHLHF
4- 7		BHMLLHHHLHF	BLHLLHHHLHF	BLHHLHHMMHF	BLHHLHHHHHF
8- 11		BLHHLHHHHHF	BLLLHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
12- 15		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
16- 19		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
20- 23		BHHHLHHHHHF	BLHHHLHHHF	BLHHLHHHF	BLLLHHHHHF
24- 27		BLHHLHHHHHF	BLHHLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
28- 31		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
32- 35		BHHHHHHHHHF	BHHHHLLLF	BHHHHHHHLHF	BHHHLLLLHF
36- 39		BHHHLHHHHHF	BLLHLLLLHF	BHHLLHHHLHF	BHMLHHHHHF
40- 43		BHMLLHHHLHF	BLLHLLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
44- 47		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
48- 51		BHHHHHHHHHF	BHHHHLLLF	BHHHHHHHLHF	BHHHHMULLHF
52- 55		BHHHHHHHHHF	BLLHLLLLHF	BHHLLHHHLHF	BHMLHHHHHF
56- 59		BHMLLHHHLHF	BLLHLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
60- 63		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
64- 67		BHHHHHHHHHF	BHHHHLLLF	BHHHHHHHLHF	BHHHHHLLLLHF
68- 71		BHHHHHHHLHF	BLLLHHLLHF	BHHLHHHHLF	BHHLHHHHHF
72- 75		BHHLHHHHHF	BHHLHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
76- 79		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
80- 83		BHHHHHHHHHF	BHHHLLLLHF	BHHHHHHHLHF	BHHHHHLLLLHF
84- 87		BHHHHHHHLHF	BHLLLHHLLHF	BLHHLHHHHF	BLHHLHHHHHF
88- 91		BLLHLHHHHHF	BLLLHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
92- 95		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
96- 99		BHHHHHHHHHF	BHHHHHLHLHF	BHHHHHLHHHF	BHHHHHLHLLF
100-103		BHHHLLLLHF	BLHHLHHHLHF	BHLHLHHHF	BHLLLHHHHHF
104-107		BHLHLHHHHF	BLHHLHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
108-111		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
112-115		BHHHHHHHHHF	BHHHLHHHLHF	BHHLHHHLHF	BHLHHHLHHHF
116-119		BHLHHHLHHF	BHLHHHLHHF	BHLHHHHHLF	BLLLHHLLHF
120-123		BHHLHLHHHF	BHHHLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
124-127		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
128-131		BHHHHHHHHHF	BHHHLLLLHF	BHHHLHHHLHF	BHHHLLLLHF
132-135		BHHHLHHHLHF	BLLLHHLLHF	BHHHLHHHHF	BLLLHHHHHF
136-139		BLHHHHHHHF	BLLLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
140-143		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
144-147		BHHHHHHHHHF	BHHHLHHHLHF	BHHHLHHHLHF	BHHHLLLLHF
148-151		BHHHLHHHLHF	BLLLHHHLHF	BHHLHHHHHF	BHHLHHHHHF
152-155		BHHHLHHHHHF	BHHLHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
156-159		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
160-163		BHHHHHHHHHF	BHHHHHHHLHF	BHHHHHHHLHF	BHHHHHHHLHF
164-167		BHHHHHHHHHF	BLLLHHLLHF	BHHLHHHHHF	BLLLHHHHHF
168-171		BHHLHHHHHF	BHHLHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
172-175		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
176-179		BHHHHHHHHHF	BHHHLHHHLHF	BHHHLHHHLHF	BHHHLHLLHF
180-183		BHHHHHLHHF	BHLLLHHLF	BHHLHHHHHF	BHHLHHHHHF
184-187		BHHLHHHHHF	BHHLHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
188-191		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
192-195		BHHHHHHHHHF	BHHHLHHLLHF	BHHHHHHHLHF	BHHHHHLLLLHF
196-199		BHHHHHHHLHF	BLLLHHHLHF	BHHHLHHHF	BHLLLHHHHHF
200-203		BHHHLHHHHHF	BHHHLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
204-207		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
208-211		BHHHHHHHHHF	BHHHLLLLHF	BHHHLHHHLHF	BHHHHHHHHHF
212-215		BHHHLHHHLHF	BHLLLHHLLHF	BLHHLHHHF	BLLLHHHHHF
216-219		BHLHLHHHHF	BLHHLHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
220-223		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
224-227		BHHHHHHHHHF	BHHHLLLLHF	BHHHHHHHLHF	BHHHLLLLHF
228-231		BHHHLHHHHF	BHLLLHHLLHF	BLHHLHHHF	BLHHLHHHHHF
232-235		BLHHLHHHHF	BHLLHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
236-239		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
240-243		BHHHHHHHHHF	BHHHLLLLHF	BHHHHHHHLHF	BHHHLLLLHF
244-247		BHHHLHHHHF	BHLHLLLLHF	BHLHHHHHF	BHLHHHHHHHF
248-251		BHLHHHHHF	BHLHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
252-255		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF

256-259	BHHHHHHHHHF	BHHHHHLLLHF	BHHHLHHLHF	BHHHLHHLHF
260-263	BHHHLHHLHF	BHHHLLLLHF	BHHHLHHHF	BHHHLHHHF
264-267	BHHHLHHHF	BLLLHHHHF	BHHHHHHHHF	BHHHHHHHHF
268-271	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHF
272-275	BHHHHHHHHHF	BHHHHHLLLHF	BHHHLHHLHF	BHHHLHHLHF
276-279	BHHHLHHLHF	BHLHHLLLHF	BHLHHHHHF	BHLHHHHHF
280-283	BHLHHHHHF	BLLLHHHHF	BHHHHHHHHF	BHHHHHHHHF
284-287	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
288-291	BHHHHHHHHHF	BHHHHHLLLHF	BHHHLHHLHF	BHHHLHHLHF
292-295	BHHHLHHLHF	BHLHLLLHF	BHLHLHHMLF	BHLHHHHHHF
296-299	BHLHHHHHF	BHLHHHHHF	BHHHHHHHHF	BHHHHHHHHF
300-303	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
304-307	BHHHHHHHHF	BHHHHHLLLHF	BHHHLHHLHF	BHHHLHHLHF
308-311	BHHHLHHLHF	BHLHLLLHF	BHLHHHHMLF	BHLHHHHHF
312-315	BHLHHHHHF	BHLHLLLHF	BHHHHHHHHF	BHHHHHHHHF
316-319	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
320-323	BHHHHHHHHF	BHHHHHLLLHF	BHHHLHHLHF	BHHHLHHLHF
324-327	BHHHLHHLHF	BHLHHLLLHF	BHLHLHHHF	BHLHLHHHF
328-331	BLLLLLHHF	BHLHHHHHF	BHHHHHHHHF	BHHHHHHHHF
332-335	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
336-339	BHHHHHHHHF	BHHHLHHLHF	BHHHLHLLHF	BHHHLHHLHF
340-343	BHHHLHHLHF	BLHHLHHLHF	BHLHLHHHF	BHLHLHHHF
344-347	BHLHLHHHF	BLHHLHHHF	BHHHHHHHHF	BHHHHHHHHF
348-351	RHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
352-355	BHHHHHHHHF	BHHHLLLLHF	BHHHHHHHLHF	BHHHLLLLHF
356-359	BHHHLHHHF	BLHLLHHHF	BHLHLHHHF	BHLHLHHHF
360-363	BHHHLHHHF	BHHLHHHHF	BHHHHHHHHF	BHHHHHHHHF
364-367	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
368-371	BHHHHHHHHF	BHHHLLLLHF	BHHHHHHMLHF	BHHHLLLLHF
372-375	BHHHHHHHF	BLLLLLHF	BLLHLHHHF	BLLLLHHHF
376-379	BLHHLHHHF	BLLLLLHHF	BHHHHHHHHF	BHHHHHHHHF
380-383	BHHHHHHHF	BHHHHHHHF	BHHHHHHHF	BHHHHHHHF
384-387	BHHHHHHHHF	BHHHHHLLLF	BHHHLHHLHF	BHHHHHHHLHF
388-391	BHHHLHHLHF	BHLHLLLHF	BHLHLHHLF	BHLHLHHLF
392-395	BHLHLHHLF	BHLHHLHHLF	BHHHHHHHHF	BHHHHHHHHF
396-399	BHHHHHHHHF	BHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
400-403	BHHHHHHHHF	BHHHLLLLHF	BHHHHHHHLHF	BHHHHHLLHF
404-407	BHHHHHHMLHF	BLHHLLLLHF	BLHLHLLHHF	BLHLHLLHHHF
408-411	BLHHHLHHF	BLHHLHHHF	BHHHHHHHHF	BHHHHHHHHF
412-415	BHHHHHHHHF	BHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
416-419	BHHHHHHHHF	BHHHLLLLHF	BHHHHHHHLHF	BHHHLLLLHF
420-423	BHHHLHHHF	BLLLLLHF	BHLHLHHHF	BLLLLHHHF
424-427	BLHHLHHHF	BLLLLLHHHF	BHHHHHHHHF	BHHHHHHHHF
428-431	BHHHHHHHHF	BHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
432-435	BHHHHHHHF	BHHHLLLLHF	BHHHHHHHLHF	BHHHLLLLHF
436-439	BHHHHHHMLHF	BLLLLLHF	BHHHLHHHF	BHHHLHHHF
440-443	BHHHLHHHF	BLLLHHHF	BHHHHHHHHF	BHHHHHHHHF
444-447	BHHHHHHHHF	BHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
448-451	BHHHHHHHF	BHHHLLLLHF	BHHHHHHHLHF	BHHHLLLLHF
452-455	BHHHHHHHLHF	BLLLLLHHHF	BHHHLHHHF	BLLLLHHHF
456-459	BHHHHHHHHF	BLLLLLHHHF	BHHHHHHHHF	BHHHHHHHHF
460-463	BHHHHHHHHF	BHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
464-467	BHHHHHHHF	BHHHLLLLHF	BHHHHHHHLHF	BHHHLLLLHF
468-471	BHHHLHHLHF	BLLLLLHF	BHHHLHHHF	BLLLLHHHF
472-475	BLHHHHHHHF	BLLLHHHF	BHHHHHHHHF	BHHHHHHHHF
476-479	BHHHHHHHHF	BHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
480-483	BHHHHHHHHF	BHHHLLLLHF	BHHHLHHLHF	BHHHLLLLHF
484-487	BHHHHHLHHF	BLLLLLHLHF	BHHHLHHHF	BLLLLHHHF
488-491	BLHHHHHHHF	BLLLHHHF	BHHHHHHHHF	BHHHHHHHHF
492-495	BHHHHHHHHF	BHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
496-499	BHHHHHHHHF	BHHHLHHLHF	BHHHLHHLHF	BHHHLHHLHF
500-503	BHHHLHHLHF	BLLLLLHF	BHHHLHHHF	BLLLLHHHF
504-507	BLHHHHHHHF	BLLLHHHF	BHHHHHHHHF	BHHHHHHHHF
508-511	BHHHHHHHHF	BHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF

EXTENDED ROMAN CHARACTER SET (GRAVE ACCENT)-DEL (140-177B)

	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7
0								0							0								
1	x	x						1		x					1								
2		x	x					2		x					2								
3		x	x					3		x					3								
4		x	x					4	x	x	x	x	x	x	4		x	x	x	x	x	x	
5				x				5	x				x	x	5		x			x			
6				x	x	x	x	6	x			x		x	6		x			x			
7				x				7	x			x		x	7		x			x			
8				x				8	x			x		x	8		x			x			
9				x	x	x	x	9	x	x	x	x	x	x	9		x	x	x	x	x	x	
10					x	x	x	10				x	x	x	10								
11					11				11						11								
12					12				12						12								
13					13				13						13								
14					14				14						14								
	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7
0								0							0								
1		x						1			x	x			1								
2		x						2			x				2								
3		x						3			x				3								
4	x	x	x	x	x			4	x	x	x	x	x	x	4		x	x	x	x	x	x	
5	x		x					5	x			x		x	5		x			x			
6	x		x					6	x	x	x	x	x	x	6		x	x		x			
7	x		x					7	x			x		x	7		x	x		x			
8	x		x					8	x			x		x	8		x	x		x			
9	x	x	x	x	x			9	x	x	x	x	x	x	9		x	x	x	x	x	x	
10					x	x	x	10				x	x	x	10								
11					11				11			x			11								
12					12				12		x	x			12								
13					13				13		x	x	x		13								
14					14				14						14								
	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7
0								0							0								
1	x							1							1		x						
2	x							2	x						2		x						
3	x							3			x				3		x						
4	x	x	x	x	x			4	x	x					4		x		x		x		
5	x		x					5	x			x		x	5		x	x	x	x	x	x	
6	x		x					6	x			x		x	6		x	x	x	x	x	x	
7	x		x					7	x			x		x	7		x	x	x	x	x	x	
8	x		x					8	x			x		x	8		x	x	x	x	x	x	
9	x	x	x	x	x			9	x	x	x	x	x	x	9		x	x	x	x	x	x	
10					x	x	x	10				x	x	x	10								
11					11				11			x			11								
12					12				12		x	x			12								
13					13				13		x	x	x		13								
14					14				14						14								

1 2 3 4 5 6 7							1 2 3 4 5 6 7							1 2 3 4 5 6 7							1 2 3 4 5 6 7							
0							0							0								0						
1							1							1								1						
2							2							2								2						
3							3							3								3						
4	x	x	x	x	x	x	4	x	x	x	x	x	x	4	x	x	x	x	x	x	4	x	x	x	x	x	x	
5	x			x			5	x			x			5	x	x	x	x	x	x	5	x						
6	x		x				6	x			x			6	x						6	x	x	x	x	x	x	
7	x		x				7	x			x			7	x						7							
8	x		x				8	x			x			8	x						8							
9	x	x	x	x	x	x	9	x	x	x	x	x	x	9	x						9	x	x	x	x	x	x	
10	x						10				x			10							10							
11	x						11				x			11							11							
12	x						12				x			12							12							
13	x						13				x			13							13							
14							14							14							14							
1 2 3 4 5 6 7							1 2 3 4 5 6 7							1 2 3 4 5 6 7							1 2 3 4 5 6 7							
0							0							0								0						
1	x						1							1								1						
2	x						2							2								2						
3	x	x	x	x	x	x	3							3							3							
4	x						4	x			x			4	x			x			4	x			x		x	
5	x						5	x			x			5	x		x				5	x	x	x	x	x	x	
6	x						6	x			x			6	x		x				6	x			x		x	
7	x						7	x			x			7	x		x				7	x			x		x	
8	x	x	x	x	x	x	8	x			x			8	x		x				8	x			x		x	
9	x	x	x	x	x	x	9	x	x	x	x	x	x	9	x	x	x	x	x	x	9	x	x	x	x	x	x	
10							10				x			10							10							
11							11				x			11							11							
12							12	x			x			12							12							
13							13	x	x	x	x	x	x	13							13							
14							14							14							14							
1 2 3 4 5 6 7							1 2 3 4 5 6 7							1 2 3 4 5 6 7							1 2 3 4 5 6 7							
0							0							0								0						
1	x	x	x	x	x	x	1	x	x	x	x	x	x	1	x	x	x	x	x	x	1	x	x	x	x	x	x	
2	x	x	x	x	x	x	2	x	x	x	x	x	x	2	x	x	x	x	x	x	2	x	x	x	x	x	x	
3	x	x	x	x	x	x	3	x	x	x	x	x	x	3	x	x	x	x	x	x	3	x	x	x	x	x	x	
4	x	x	x	x	x	x	4	x	x	x	x	x	x	4	x	x	x	x	x	x	4	x	x	x	x	x	x	
5	x	x	x	x	x	x	5	x	x	x	x	x	x	5	x	x	x	x	x	x	5	x	x	x	x	x	x	
6	x	x	x	x	x	x	6	x	x	x	x	x	x	6	x	x	x	x	x	x	6	x	x	x	x	x	x	
7	x	x	x	x	x	x	7	x	x	x	x	x	x	7	x	x	x	x	x	x	7	x	x	x	x	x	x	
8	x	x	x	x	x	x	8	x	x	x	x	x	x	8	x	x	x	x	x	x	8	x	x	x	x	x	x	
9	x	x	x	x	x	x	9	x	x	x	x	x	x	9	x	x	x	x	x	x	9	x	x	x	x	x	x	
10							10				x			10							10							
11							11				x			11							11							
12							12	x	x	x	x	x	x	12							12							
13							13	x	x	x	x	x	x	13							13							
14							14							14							14							

EXTENDED ROMAN CHARACTER SET (GRAVE ACCENT)-DEL (140-177B)

01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 LHLLHHHH	1 HHHHHHHH	1 LLHHHHHHH	1 HHHHHHHH
2 HHHLHHHH	2 HHHHHHHH	2 LLHHHHHHH	2 HHHHHHHH
3 LHHLLHHH	3 HHHHHHHH	3 LLHHHHHHH	3 HHHHHHHH
4 HHHHLHHH	4 LLLLLLHH	4 LLLLLLHH	4 LHLLLHHH
5 HHHHHHHH	5 HHHHHHLH	5 LLHHHHHLH	5 HHLHHHLH
6 HHHHHHHH	6 HLLLLLH	6 LLHHHHHLH	6 LLHHHHHH
7 HHHHHHHH	7 HLHHHHHLH	7 LLHHHHHLH	7 LLHHHHHH
8 HHHHHHHH	8 HLHHHHHLH	8 LLHHHHHLH	8 HLHHHHHLH
9 HHHHHHHH	9 LLLLLLHH	9 LLLLLLHH	9 LHLLLHHH
10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 LHHHHHLH	1 HHHHHHHH	1 HHHHLLH	1 HHHHHHHH
2 LHHHHHLH	2 HHHHHHHH	2 LHHLHHHH	2 HHHHHHHH
3 LHHHHHLH	3 HHHHHHHH	3 LHHLHHHH	3 HHHHHHHH
4 LHLLLHH	4 LLLLLLHH	4 LLLLHHH	4 HLLLHHH
5 LLHHHHHLH	5 LLHHHHHLH	5 LHHLHHHH	5 LLHHHHHLH
6 LLHHHHHLH	6 LLLLLLHH	6 LHHLHHHH	6 LLHHHHHLH
7 LLHHHHHLH	7 LLHHHHHHH	7 LHHLHHHH	7 LLHHHHHLH
8 LLHHHHHLH	8 LLHHHHHHH	8 LHHLHHHH	8 LLHHHHHLH
9 LHLLLHHH	9 LLLLLLHH	9 LHHLHHHH	9 LHLLLHHH
10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH	10 LHHHHHLH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH	11 LHHHHHLH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHLHHHLH
13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH	13 LHLLLHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 LLHHHHHH	1 HHHHHHHH	1 HHHHHHHH	1 LHLHHHHH
2 LLHHHHHH	2 LHHLHHHH	2 LHHLHHHH	2 LHLHHHHH
3 LLHHHHHH	3 HHHHHHHH	3 HHHHHHHH	3 LHLHHHHH
4 LLLLLLHH	4 HHHLHHH	4 HHHLHHH	4 LHLHHHLH
5 LLHHHHHLH	5 HHHLHLHH	5 HHHLHHH	5 LHLHLHHH
6 LLHHHHHLH	6 HHHLHLHH	6 HHHLHHH	6 LHLLHHHH
7 LLHHHHHLH	7 HHHLHLHH	7 HHHLHHH	7 LHLLHHHH
8 LLHHHHHLH	8 HHHLHLHH	8 HHHLHHH	8 LHLHLHHH
9 LLHHHHHLH	9 LHLLLHHH	9 HHHLHHH	9 LHLHHHLH
10 HHHHHHHH	10 HHHHHHHH	10 HHHHLHHH	10 HHHHHHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHLHHH	11 HHHHHHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHLHLHHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHLLHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 HHHLHHH	1 HHHHHHHH	1 HHHHHHHH	1 HHHHHHHH
2 HHHLHHH	2 HHHHHHHH	2 HHHHHHHH	2 HHHHHHHH
3 HHHLHHH	3 HHHHHHHH	3 HHHHHHHH	3 HHHHHHHH
4 HHHLHHH	4 LLLLLLHH	4 LLLLHHH	4 LHLLLHHH
5 HHHLHHH	5 HLHHHLHL	5 LHLHHHLH	5 HHLHHHLH
6 HHHLHHH	6 HLHHHLHL	6 LHLHHHLH	6 LLHHHHHLH
7 HHHLHHH	7 HLHHHLHL	7 LHLHHHLH	7 LLHHHHHLH
8 HHHLHHH	8 HLHHHLHL	8 LHLHHHLH	8 HHLHHHLH
9 LHLLLHHH	9 HLHHHLHL	9 LHLHHHLH	9 LHLLLHHH
10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH

01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 HHHHHHHH	1 HHHHHHHH	1 HHHHHHHH	1 HHHHHHHH
2 HHHHHHHH	2 HHHHHHHH	2 HHHHHHHH	2 HHHHHHHH
3 HHHHHHHH	3 HHHHHHHH	3 HHHHHHHH	3 HHHHHHHH
4 LLLLLLHH	4 LHLLLLLH	4 HHLLHLHH	4 HHLLLLLH
5 LLHHHHHLH	5 LLHHHHHLH	5 HHLLHHHL	5 HHLLHHHH
6 LLHHHHHLH	6 LLHHHHHLH	6 HHLLHHHH	6 HHLLLLLH
7 LLHHHHHLH	7 LLHHHHHLH	7 HHLLHHHH	7 HHHHHHHLH
8 LLHHHHHLH	8 LLHHHHHLH	8 HHLLHHHH	8 HHHHHHHLH
9 LLHHHHHLH	9 LHLLLLLH	9 HHLLHHHH	9 HHLLLLLH
10 LLHHHHHHH	10 LHHHHHHH	10 HHHHHHHH	10 HHHHHHHH
11 LLHHHHHHH	11 LHHHHHHH	11 HHHHHHHH	11 HHHHHHHH
12 LLHHHHHHH	12 LHHHHHHH	12 HHHHHHHH	12 HHHHHHHH
13 LLHHHHHHH	13 LHHHHHHH	13 HHHHHHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 LHHLHHHH	1 HHHHHHHH	1 HHHHHHHH	1 HHHHHHHH
2 LHHLHHHH	2 HHHHHHHH	2 HHHHHHHH	2 HHHHHHHH
3 HHLLLLHH	3 HHHHHHHH	3 HHHHHHHH	3 HHHHHHHH
4 LHHLHHHH	4 LLHHHLHH	4 HLHHHHHL	4 HLHHHHHL
5 LHHLHHHH	5 LLHHHLHH	5 LLHHHHHL	5 HLHHHLHL
6 LHHLHHHH	6 LLHHHLHH	6 HHLLHHHL	6 HLHHHLHL
7 LHHLHHHH	7 LLHHHLHH	7 LHLLHLHH	7 LLHLHLH
8 LHHLHLHH	8 LLHHHLHH	8 HHHLHLHH	8 HHLLHLHH
9 LHHLHLHH	9 LHLLLLLH	9 LHLLHHHH	9 LHHLHLHH
10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 HHHHHHHH	1 HHHHHHHH	1 HHHHHHHH	1 LHHHLHHH
2 HHHHHHHH	2 HHHHHHHH	2 HHHHHHHH	2 HHHLHHHH
3 HHHHHHHH	3 HHHHHHHH	3 HHHHHHHH	3 HHHLHHHH
4 LLLHHHLH	4 HLHHHHHL	4 HHLLLLLH	4 HHHLHHHH
5 HHHLHLHH	5 LLHHHHHLH	5 LHLLHHHH	5 HHLLHHHH
6 LHHLHHHH	6 HHLLHHHLH	6 LHHLHHHH	6 HHHLHHHH
7 LHHLHHHH	7 LHLLHLHH	7 LHLLHHHH	7 HHHLHHHH
8 HHHLHLHH	8 HHHLHLHH	8 LHLLHHHH	8 HHHLHLHH
9 LLLHHHLH	9 LHLLHHHH	9 HHLLLLLH	9 LHHHLHHH
10 HHHHHHHH	10 HHHLHLHH	10 HHHHHHHH	10 HHHHHHHH
11 HHHHHHHH	11 LHHLHHHH	11 HHHHHHHH	11 HHHHHHHH
12 HHHHHHHH	12 HLHLHHHH	12 HHHHHHHH	12 HHHHHHHH
13 HHHHHHHH	13 LLLHHHHH	13 HHHHHHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 LHLLLHHH	1 LHLLHHHH	1 HHHHHHHH	1 HHLHLHLH
2 LHLLLHHH	2 HHHLHLHH	2 HHHHHHHH	2 HLHLHLHL
3 LHLLLHHH	3 HHHLHLHH	3 HHHHHHHH	3 HHHLHLHL
4 LHLLLHHH	4 HHHLHLHH	4 LLLHHHHH	4 HLHLHLHL
5 HHHHHHHH	5 HHHLHLHH	5 HLHHHLHL	5 HHHLHLHL
6 LHLLLHHH	6 HHHLHLHH	6 LHLLHLHH	6 HLHLHLHL
7 LHLLLHHH	7 HHHLHLHH	7 HHLLHHHH	7 HLHLHLHL
8 LHLLLHHH	8 HHHLHLHH	8 HHLLHHHH	8 HLHLHLHL
9 LHLLLHHH	9 LHLLHHHH	9 HHLLHHHH	9 HLHLHLHL
10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH

EXTENDED ROMAN CHARACTER SET
 HEWLETT-PACKARD CO.
 (GRAVE ACCENT)-DEL (140-177B)
 MMI 4K PROM FORMAT
 GGGGGGGGGGGGGGGGGGGGGGGGGGGGG

0- 3	S	BHHHHHHHHHF	BHHHHHLHLF	BHHHLLHHHF	BHHHLLHHLF
4- 7		BHHLLHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
8- 11		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
12- 15		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
16- 19		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
20- 23		BHLHHHHHHLF	BHLHHHHHHHF	BHLLLLLLHF	BHLHHHHHLHF
24- 27		BHLHHHHHLHF	BHLLLLLLHF	BHHHHHHHHHF	BHHHHHHHHHF
28- 31		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
32- 35		BHHHHHHHHHF	BHHHHHHHLLF	BHHHHHHHLLF	BHHHHHHHLLF
36- 39		BHLLLLLLHF	BHLHHHHHLLF	BHLHHHHHLLF	BHLHHHHHLLF
40- 43		BHLHHHHHLLF	BHLLLLLLHF	BHHHHHHHHHF	BHHHHHHHHHF
44- 47		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
48- 51		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
52- 55		BHLHHHHHLLF	BHLHHHHHLLF	BHHHHHHHLLF	BHHHHHHHLLF
56- 59		BHLHHHHHLLF	BHLHHHHHLLF	BHHHHHHHHHF	BHHHHHHHHHF
60- 63		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
64- 67		BHHHHHHHHHF	BHLHHHHHLLF	BHLHHHHHLLF	BHLHHHHHLLF
68- 71		BHLLLLLLHF	BHLHHHHHLLF	BHLHHHHHLLF	BHLHHHHHLLF
72- 75		BHLHHHHHLLF	BHLLLLLLHF	BHHHHHHHHHF	BHHHHHHHHHF
76- 79		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
80- 83		BHHHHHHHHHF	BHLHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
84- 87		BHLLLLLLHF	BHLHHHHHHHF	BHLLLLLLHF	BHHHHHHHHHF
88- 91		BHHHHHHHHHF	BHLLLLLLHF	BHHHHHHHHHF	BHHHHHHHHHF
92- 95		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
96- 99		BHHHHHHHHHF	BHLHHHHHHHF	BHHHHHLHHLF	BHHHHHLHHLF
100-103		BHLLLLLLHF	BHHHHHLHHLF	BHHHHHLHHLF	BHHHHHLHHLF
104-107		BHHHHHLHHLF	BHHHHHLHHLF	BHHHHHHHHHF	BHHHHHHHHHF
108-111		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
112-115		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
116-119		BHLHHHHHLLF	BHLHHHHHLLF	BHLHHHHHLLF	BHLHHHHHLLF
120-123		BHLHHHHHLLF	BHLHHHHHLLF	BHLHHHHHLLF	BHLHHHHHLLF
124-127		BHLHHHHHLLF	BHLHHHHHLLF	BHHHHHHHHHF	BHHHHHHHHHF
128-131		BHHHHHHHHHF	BHHHHHHHLLF	BHHHHHHHLLF	BHHHHHHHLLF
132-135		BHLLLLLLHF	BHLHHHHHLLF	BHLHHHHHLLF	BHLHHHHHLLF
136-139		BHLHHHHHLLF	BHLHHHHHLLF	BHHHHHHHHHF	BHHHHHHHHHF
140-143		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
144-147		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHLHHLF	BHHHHHHHHHF
148-151		BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF
152-155		BHHHLHHHHF	BHLLLLLLHF	BHHHHHHHHHF	BHHHHHHHHHF
156-159		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
160-163		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHLHHLF	BHHHHHHHHHF
164-167		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
168-171		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
172-175		BHHHLHLHHF	BHHHLLLLHF	BHHHHHHHHHF	BHHHHHHHHHF
176-179		BHHHHHHHHHF	BHHHHHLHHLF	BHHHHHLHHLF	BHHHHHLHHLF
180-183		BHHHLHLHHF	BHHHLHLHHF	BHHHHLLHLF	BHHHHLLHLF
184-187		BHHHLHLHHF	BHLHHLHHLF	BHHHHHHHHHF	BHHHHHHHHHF
188-191		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
192-195		BHHHHHHHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
196-199		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
200-203		BHHHLHHHF	BHLLLLLLHF	BHHHHHHHHHF	BHHHHHHHHHF
204-207		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
208-211		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
212-215		BHLLLLLLHF	BHLHHLHHLF	BLHHLHHLHF	BLHHLHHLHF
216-219		BLHHLHHLHF	BLHHLHHLHF	BHHHHHHHHHF	BHHHHHHHHHF
220-223		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
224-227		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
228-231		BHLLLLLLHF	BHLHHHLHHLF	BHLHHHLHHLF	BHLHHHLHHLF
232-235		BHLHHHLHHLF	BHLHHHLHHLF	BHHHHHHHHHF	BHHHHHHHHHF
236-239		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
240-243		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
244-247		BHLLLLLLHF	BHLHHHLHHLF	BHLHHHHHLLF	BHLHHHHHLLF
248-251		BHLHHHLHHLF	BHLLLLLLHF	BHHHHHHHHHF	BHHHHHHHHHF
252-255		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF

256-259	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
260-263	BHLLL LLLL F	BHLHHHHHLLF	BHLHHHHHLLF	BHLHHHHHLLF
264-267	BHLHHHHHLLF	BHLLL LLLL F	BHHHHHHHHHF	BHHHHHHHLLF
268-271	BHHHHHHHLLF	BHHHHHHHLLF	BHHHHHHHHHF	BHHHHHHHHHF
272-275	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
276-279	BHLLL LLLL F	BHLHHHHHLLF	BHLHHHHHLLF	BHLHHHHHLLF
280-283	BHLHHHHHLLF	BHLLL LLLL F	BHLHHHHHLLF	BHLHHHHHLLF
284-287	BHLHHHHHLLF	BHLHHHHHLLF	BHHHHHHHHHF	BHHHHHHHHHF
288-291	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
292-295	BHLL LHLH HF	BHLHHLLH HF	BHHHHHLH HF	BHHHHHLH HF
296-299	BHHHHHLH HF	BHHHHHLH HF	BHHHHHHHHHF	BHHHHHHHHHF
300-303	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
304-307	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
308-311	BHLLL LLLL HF	BHHHHHLH HF	BHLLL LLLL HF	BHLHHHHHHF
312-315	BHLHHHHHHF	BHLLL LLLL HF	BHHHHHHHHHF	BHHHHHHHHHF
316-319	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
320-323	BHHHHHHHHHF	BHHHHHLH HF	BHHHHHLH HF	BHLLL LLLL HF
324-327	BHHHHHLH HF	BHHHHHLH HF	BHHHHHLH HF	BHHHHHLH HF
328-331	BHHHLH HHLF	BHHLL LLLL F	BHHHHHHHHHF	BHHHHHHHHHF
332-335	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
336-339	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
340-343	BHHHLH HHLF	BHHLHHHLLF	BHHLHHHLLF	BHHLHHHLLF
344-347	BHHHLH HHLF	BHLL LLLL HF	BHHHHHHHHHF	BHHHHHHHHHF
348-351	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
352-355	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
356-359	BHLHHHHHLHF	BHLHHHHHLLF	BHLHHHLH HF	BHHLHHHLLHF
360-363	BHLHLH HH HF	BHHHLH HHLF	BHHHHHHHHHF	BHHHHHHHHHF
364-367	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
368-371	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
372-375	BHLHHHHHLHF	BHLHHLHHLF	BHLHHLHHLF	BHLHLHLLF
376-379	BHLHLH LL HF	BHLHLHHL HF	BHHHHHHHHHF	BHHHHHHHHHF
380-383	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
384-387	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
388-391	BHLLHHHLLF	BHHHLH LHHF	BHHHLH LHHF	BHHHLH LHHF
392-395	BHHHLH LHHF	BHLLHHHLLF	BHHHHHHHHHF	BHHHHHHHHHF
396-399	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
400-403	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
404-407	BHLHHHHHLF	BHLHHHHHLLF	BHLHHHLH HF	BHHLHHHLLHF
408-411	BHHHLH LHHF	BHHHLH HHLF	BHHHLH HHHF	BHHHHHLH HF
412-415	BHHHHHLH HF	BHHHHHHHLLF	BHHHHHHHHHF	BHHHHHHHHHF
416-419	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
420-423	BHLLL LLLL HF	BHHLHHHHLF	BHHHLH HHLF	BHHHHHLH HF
424-427	BHHHHHHHLF	BHLLL LLLL HF	BHHHHHHHHHF	BHHHHHHHHHF
428-431	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
432-435	BHHHHHHHHHF	BHHHLH HHLF	BHHHLH HHHF	BHHHLH HHHF
436-439	BHHHLH HHHF	BHHHHHLH HF	BHHHLH HHHF	BHHHLH HHHF
440-443	BHHHLH HHHF	BHHHLH HHLF	BHHHHHHHHHF	BHHHHHHHHHF
444-447	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
448-451	BHHHHHHHHHF	BHHHLH HHLF	BHHHLH LHHF	BHHHLH LHHF
452-455	BHHHLH LHLF	BHHHHHHHHHF	BHHHLH LHHF	BHHHLH LHHF
456-459	BHHHLH LHLF	BHHHLH HHLF	BHHHHHHHHHF	BHHHHHHHHHF
460-463	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
464-467	BHHHHHHHHHF	BHHHHHLH LF	BHHHLH HHHF	BHHHLH HHHF
468-471	BHHHLH HHHF	BHLLHHHHHF	BHHHLH HHHF	BHHHLH HHHF
472-475	BHHHLH HHHF	BHHHHHLH LF	BHHHHHHHHHF	BHHHHHHHHHF
476-479	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
480-483	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
484-487	BHHHHHLLLL F	BHLHLHHLHF	BHLLLHHHLLF	BHHHHHHHHHF
488-491	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
492-495	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
496-499	BHHHHHHHHHF	BHLHLH LHF	BHLHLH LHF	BHLHLH LHF
500-503	BHLHLH LHF	BHLHLH LHF	BHLHLH LHF	BHLHLH LHF
504-507	BHLHLH LHF	BHLHLH LHF	BHHHHHHHHHF	BHHHHHHHHHF
508-511	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF

E

MATH SYMBOL SET (SPACE)-? (40-77B)

1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
0							0							0						
1							1							1						
2							2							2						
3							3							3						
4							4							4						
5							5							5						
6							6							6						
7							7							7						
8							8							8						
9							9							9						
10							10							10						
11							11							11						
12							12							12						
13							13							13						
14							14							14						
1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
0							0							0						
1							1							1						
2							2							2						
3	x	x	x	x	x	x	3	x	x	x	x	x	x	3	x	x	x	x	x	
4	x						4	x	x	x	x	x	x	4	x					
5	x						5	x						5	x					
6	x	x					6	x						6	x					
7	x	x					7	x	x	x	x	x	x	7	x					
8	x	x					8	x	x	x	x	x	x	8	x					
9	x						9							9	x	x	x	x	x	
10							10							10	x					
11							11							11	x					
12							12							12	x					
13							13							13	x					
14							14							14	x					
1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
0							0							0						
1							1							1	x	x	x	x	x	
2	x	x					2	x						2	x					
3	x	x					3	x	x					3	x					
4	x		x				4	x		x				4	x					
5	x	x	x	x	x	x	5	x	x	x	x	x	x	5	x					
6	x						6	x						6	x					
7	x	x					7	x			x			7	x					
8	x	x					8	x	x	x	x	x	x	8	x					
9	x	x					9	x	x	x	x	x	x	9	x	x	x	x	x	
10							10							10						
11							11							11						
12							12							12						
13							13							13						
14							14							14						
1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
0							0							0						
1	x	x	x				1							1	x					
2	x						2							2	x	x	x	x	x	
3	x	x		x			3	x	x	x	x	x	x	3	x		x		x	
4	x	x	x	x			4	x		x	x	x	x	4	x					
5	x	x	x	x			5	x	x	x	x	x	x	5	x	x	x	x	x	
6	x	x	x	x			6	x	x	x	x	x	x	6	x					
7	x	x	x	x	x	x	7	x	x	x	x	x	x	7	x					
8	x						8	x			x			8	x	x	x	x	x	
9	x	x	x				9	x	x	x	x	x	x	9	x	x	x	x	x	
10							10							10						
11							11							11						
12							12							12						
13							13							13						
14							14							14						

	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7	
0								0							0									0								
1	x	x	x					1	x						1	x	x	x					1	x	x	x						
2	x		x					2	x	x					2	x		x					2		x							
3	x		x					3	x						3	x		x					3	x	x							
4	x		x					4	x						4	x	x	x					4		x							
5	x		x					5	x						5	x		x					5		x							
6	x	x	x					6	x	x	x				6	x	x	x	x				6	x	x	x						
7								7							7								7									
8								8							8								8									
9								9							9								9									
10								10							10								10									
11								11							11								11									
12								12							12								12									
13								13							13								13									
14								14							14								14									
	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7	
0								0							0								0									
1	x							1	x	x	x				1	x	x	x					1	x	x	x	x					
2	x		x					2	x						2	x							2		x							
3	x		x					3	x	x	x				3	x							3		x							
4	x	x	x	x				4		x					4	x	x	x					4		x							
5	x							5	x		x				5	x		x					5		x							
6	x							6	x	x	x				6	x	x	x					6		x							
7								7							7	x	x	x	x				7	x	x	x						
8								8							8	x	x	x	x				8	x	x	x						
9								9		x	x				9	x	x	x	x				9	x	x	x	x					
10								10							10								10									
11								11							11								11									
12								12							12								12									
13								13							13								13									
14								14							14								14									
	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7	
0								0							0								0									
1	x	x	x					1	x	x	x				1	x	x	x	x				1	x	x	x	x					
2	x		x					2	x		x				2	x		x	x				2	x		x						
3	x	x	x					3	x	x	x				3	x		x	x				3		x							
4	x		x					4	x						4	x		x	x				4		x	x						
5	x		x					5	x		x				5	x		x	x				5		x	x						
6	x	x	x					6	x		x				6	x		x	x				6		x	x						
7	x	x	x	x				7	x	x	x				7	x		x	x				7		x	x						
8	x	x	x	x				8	x	x	x				8	x		x	x				8	x	x	x						
9	x	x	x	x				9	x	x	x				9	x		x	x				9	x	x	x	x					
10								10							10								10									
11								11							11								11									
12								12							12								12									
13								13							13								13									
14								14							14								14									

MATH SYMBOL SET (SPACE)-7 (40-77B)

01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHLHHH	0 HHHHHHHH
1 HHHHHHHH	1 HHHHHHHH	1 HHHHLHHH	1 HHHLLLHH
2 HHHHHHHH	2 LHHHHHLH	2 HHHHLHHH	2 LHLHHHHH
3 HHHHHHHH	3 HHHHHHLH	3 HHHHLHHH	3 LHLHHHHH
4 HHHHHHHH	4 LHHHHLHH	4 HHHHLHHH	4 LHLLLLHH
5 HHHHHHHH	5 HHHHLHHH	5 HHHHLHHH	5 HLHLHHHLH
6 HHHHHHHH	6 LHHHLHHH	6 HHHHLHHH	6 LHLLLLHH
7 HHHHHHHH	7 HLHLHHH	7 HHHHLHHH	7 LHHHLHHH
8 HHHHHHHH	8 LLHLHHH	8 HHHHLHHH	8 LHHHLHHH
9 HHHHHHHH	9 HLHHHHHH	9 HHHHLHHH	9 HHHLLLHH
10 HHHHHHHH	10 LHLHHHHH	10 HHHHLHHH	10 HHHHHHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHLHHH	11 HHHHHHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHLHHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHHHLHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHLHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHLHHH	15 HHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 HHHHHHHH	1 HHHHHHHH	1 HHHHHHHH	1 HHHLLLH
2 HHHHHHHH	2 HHHHLHHH	2 HHHHHHHH	2 LHHHLLLH
3 HLHLHLH	3 HHHHLHHH	3 HHHHHHHH	3 HHHLHHHH
4 LLHHHLH	4 HLHLHHH	4 LLHHHLHH	4 HHHLHHHH
5 HHLHHHLH	5 HHHHLHHH	5 LLHHHLHH	5 HHHLHHHH
6 LHLHHHLH	6 HHHHLHHH	6 LLHHHLHH	6 HHHLHHHH
7 HHHLHLHH	7 HHHHHHHH	7 HHHLHLHH	7 HHHLHHHH
8 LHHLHHHH	8 HHLHLHHH	8 HHHLHHHH	8 HHHLHHHH
9 HHHLHLHH	9 HHHHHHHH	9 HHHLHHHH	9 HHHLHHHH
10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH	10 HHHHLHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH	11 HHHLHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHHLHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH	13 HHHLHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHLHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHLHHH
01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 HHHHHHHH	1 HHHHHHHH	1 LLLLLLLH	1 LLLLLLLH
2 LHHLLHHH	2 HHHHHHHH	2 LHLHHHLH	2 LHLHHHLH
3 LHHLLHHH	3 LLLLHHHH	3 LHLHHHHH	3 LHLHHHLH
4 HHHLHLH	4 HLHLHLH	4 LHLHLHH	4 LHLHHHHH
5 LLLLLLH	5 LHHHLHHH	5 LHLHLHH	5 LHLHHHHH
6 HHHHHHHH	6 HHHHHHHH	6 LHLHLHH	6 LHLHHHHH
7 LHHLLHHH	7 HHHHHHHH	7 LHLHLHH	7 LHLHHHHH
8 LHHLLHHH	8 HLLLHLHH	8 LHLHLHH	8 LHLHHHHH
9 HHHHHHHH	9 HHHLHHHH	9 HHHLHLH	9 LLLLHHHH
10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 HHHLLLHH	1 HHHHHHHH	1 HHHLLLHH	1 LHLHHHLH
2 HHHHLHHH	2 HHHHHHHH	2 HHHHLHHH	2 HHHLLLLH
3 HLHLHLHL	3 LLLLHHHH	3 LHLHLHHH	3 LLHHHLHH
4 HHHLHLH	4 HHHHHHHH	4 HHHLHLH	4 HHHHHHHH
5 HHLHLHLH	5 LLLLHHHH	5 HHHLHLH	5 HHHLLLLH
6 HHHLHLHLH	6 HHHHHHHH	6 HHHLHLH	6 HHHHHHHH
7 HHLLHLHH	7 LLLLHHHH	7 LHLHLHH	7 LHLHHHLH
8 HHHLHLHH	8 HHHHHHHH	8 HHHLHLH	8 HHHLLLLH
9 HHHLLLHH	9 HHHHHHHH	9 HHHLHLH	9 LLHHHLHH
10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH

01234567	01234567	01234567	01234567
0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH
1 LLLLHHHHH	1 LHLHHHHHH	1 LLLLHHHHH	1 LLLLHHHHH
2 HLHHLHHHH	2 LLLHHHHHH	2 HLHHLHHHH	2 HHHLHHHHH
3 LHHLHHHHH	3 LHLHHHHHH	3 LHHLHHHHH	3 LHLHMHHHH
4 HLHHLHHHH	4 LHLHHHHHH	4 HLHHLHHHH	4 HHHLHHHHH
5 HLHHLHHHH	5 LHLHHHHHH	5 HLHHLHHHH	5 HHHLHHHHH
6 LLLLHHHHH	6 LLLLHHHHH	6 LLLLHHHHH	6 LLLLHHHHH
7 HHHHHHHHH	7 HHHHHHHHH	7 HHHHHHHHH	7 HHHHHHHHH
8 HHHHHHHHH	8 HHHHHHHHH	8 HHHHHHHHH	8 HHHHHHHHH
9 HHHHHHHHH	9 HHHHHHHHH	9 HHHHHHHHH	9 HHHHHHHHH
10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH
11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH
12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH
13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH
14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH
15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH
1 HLHHHHHHH	1 LLLLHHHH	1 LLLLHHHH	1 LLLLHHHH
2 HLHLHMHHH	2 HLHHHHHHH	2 HLHHHHHHH	2 HHHLHMHHH
3 HLHLHMHHH	3 LLLLHHHHH	3 HLHHHHHHH	3 LHLHMHHHH
4 HLLLLHHHH	4 HHHLHMHHH	4 HLLLHHHH	4 HHHLHMHHH
5 HHHLHMHHH	5 HLHHLHHHH	5 HLHHLHHHH	5 LHLHMHHHH
6 HHHLHMHHH	6 LLLLHHHHH	6 HLLLHHHH	6 HHLHMHHHH
7 HHHHHHHHH	7 HHHHHHHHH	7 HHHHHHHHH	7 HHHHHHHHH
8 HHHHHHHHH	8 HHHHHHHHH	8 HHHHHHHHH	8 HHHHHHHHH
9 HHHHHHHHH	9 HHHHHHHHH	9 HHHHHHHHH	9 HHHHHHHHH
10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH
11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH
12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH
13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH
14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH
15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH
1 LLLLHHHH	1 LLLLHHHH	1 LLLLHHHH	1 HHHHHHHHH
2 HLHLHMH	2 HLHHLHHH	2 HLHHLHHH	2 HHHHHHHHH
3 LLLLHHHH	3 LLLLHHHH	3 LLHHHHHHL	3 HHHLHMHHH
4 HLHLHMH	4 HHHLHMH	4 LLHHHHHHL	4 LHLHMHHH
5 HLHLHMH	5 HHHLHMH	5 HHHLHMH	5 HHHLHMH
6 LLLLHHHH	6 LLLLHHHH	6 LHLHMH	6 LHLHMH
7 HHHHHHHHH	7 HHHHHHHHH	7 HHHLHMH	7 HHLHMH
8 HHHHHHHHH	8 HHHHHHHHH	8 HLHLHHL	8 LLHHHHHHL
9 HHHHHHHHH	9 HHHHHHHHH	9 LLHHHLL	9 HLLHHHLL
10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH
11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH
12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH
13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH
14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH
15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHLHHHH	0 HHHHLHHHH	0 HHHHHHHHH	0 HHHHHHHHH
1 HHHHHHHHH	1 HHHHLHHHH	1 HHHLHMHHH	1 LLLLHLLL
2 HHHHHHHHH	2 HHHHLHHHH	2 LHHLLHHHH	2 HHHLHMHHL
3 HHHHHHHHH	3 HHHHLHHHH	3 HHHLHMHHH	3 HHHLHMHHH
4 HHHHHHHHH	4 HHHHLHHHH	4 HHLLLHHHH	4 HHHLHMHHH
5 HHHLHMHHH	5 HHHHLHHHH	5 HHHLHMHHH	5 HHHLHMHHH
6 LLHLLHHL	6 HHHLHMHHH	6 HHHLHMHHH	6 HHHLHMHHH
7 LLHLLHHL	7 HHHLHMHHH	7 HHHLHMHHH	7 HHHLHMHHH
8 HLLLHLLH	8 LLLLHHHHH	8 HHHLHMHHH	8 HHLHMHHL
9 HLLLHLLH	9 HHHLHMHHH	9 HHHLHMHHH	9 HLLLHLLL
10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH
11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH
12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH
13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH
14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH
15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH

MATH SYMBOL SET
HEWLETT-PACKARD CO.
(SPACE)-? (40-77B)
MMI 4K PROM FORMAT
GGGGGGGGGGGGGGGGGGGGGGGGGG

0- 3 S BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF
4- 7 BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF
8- 11 BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF
12- 15 BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF
16- 19 BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF
20- 23 BHHLHHLHMF BHHLHHLHMF BHHLHHLHMF BHHLHHLHMF BHHLHHLHMF
24- 27 BHHHLHLLHF BHHHLHLLHF BHHHLHLLHF BHHHLHLLHF BHHHLHLLHF
28- 31 BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF
32- 35 BHHHLHHHHF BHHHLHHHHF BHHHLHHHHF BHHHLHHHHF BHHHLHHHHF
36- 39 BHHHLHHHHF BHHHLHHHHF BHHHLHHHHF BHHHLHHHHF BHHHLHHHHF
40- 43 BHHHLHHHHF BHHHLHHHHF BHHHLHHHHF BHHHLHHHHF BHHHLHHHHF
44- 47 BHHHLHHHHF BHHHLHHHHF BHHHLHHHHF BHHHLHHHHF BHHHLHHHHF
48- 51 BHHHHHHHHF BHHLLLHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF
52- 55 BHHLLLHLHF BHLHHHLHMF BHHLLLHLHF BHHLLLHLHF BHHLLLHLHF
56- 59 BHHLHHLHMF BHHLLLHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF
60- 63 BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF
64- 67 BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BLLLHHHHHF
68- 71 BHLHHHLHMF BHLHHHLHMF BHLHHHLHMF BHLHHHLHMF BHLHHHLHMF
72- 75 BHHHLHHHF BHHHLHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF
76- 79 BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF
80- 83 BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF
84- 87 BHLLLHHHF BHHHLHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF
88- 91 BHLLLHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF
92- 95 BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF
96- 99 BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHLHLLHHHF
100-103 BHLHHLHLLF BHHLLHHHF BHHLLHHHF BHHLLHHHF BHLHLLHHHF
104-107 BLLHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF
108-111 BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF
112-115 BHHHHHHHHF BHLHHHHHF BHLHHHHHF BHHHHHHHHF BHHHHHHHHF
116-119 BHHHLHHHHF BHHHLHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF
120-123 BHHHLHHHHF BHHHLHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF
124-127 BHHHLHHHHF BHHHLHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF
128-131 BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHLHHHF
132-135 BHHHHHHHHF BHLHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHLHHHF
136-139 BHHHLHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF
140-143 BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF
144-147 BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF
148-151 BHLHLHHLF BHLHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF
152-155 BLLLHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF
156-159 BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF
160-163 BHHHHHHHHF BHLHHHHHF BHHHLHHLF BHHHLHHLF BHHHLHHLF
164-167 BHLHLHHLF BHLHLHHLF BHLHLHHLF BHLHLHHLF BHLHLHHLF
168-171 BHLHLHHLF BHLHLHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF
172-175 BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHLHHHLHMF
176-179 BHHHHHHHHF BHLHHHHHF BHLHHHHHF BHLHHHHHF BHLHHHLHMF
180-183 BHHHHHLHMF BHHHHHHHLHF BHHHHHHHLHF BHHHHHHHLHF BHHHHHHHLHF
184-187 BHHHHHLHMF BHHHHHHLLHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF
188-191 BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF
192-195 BHHHHHHHHF BHHHLHHHF BHHHLHHHF BHHHLHHHF BHLLLLHHHF
196-199 BHLHLHHHF BHLHLHHHF BHLHLHHHF BHLHLHHHF BHLLLLHHHF
200-203 BHHHLHHHHF BHHHLHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF
204-207 BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF
208-211 BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHLLLLHHHF BHLLLLHHHF
212-215 BHHHHHHHHF BHLLLLHHHF BHHHHHHHHF BHLLLLHHHF BHLLLLHHHF
216-219 BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF
220-223 BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF
224-227 BHHHHHHHHF BHHHLHHHF BHHHLHHHF BHHHLHHHF BHLLLLHHHF
228-231 BHLHLHHHF BHLHLHHHF BHLHLHHHF BHLHLHHHF BHLLLLHHHF
232-235 BHHHLHHHHF BHHHLHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF
236-239 BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF
240-243 BHHHHHHHHF BHLHHHLHMF BHLHHHHHF BHLHHHHHF BHLHHHLHMF
244-247 BHHHHHHHHF BHLHHHHHF BHLHHHHHF BHHHHHHHHF BHLHHHLHMF
248-251 BHLLLLHHHF BHLHHHHHF BHLHHHHHF BHHHHHHHHF BHHHHHHHHF
252-255 BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF BHHHHHHHHF

256-259	BHHHHHHHHHF	BHHHHLLLLLF	BHHHLHHHLHF	BHHHLHHHLHF
260-263	BHHHLHHHLHF	BHHHLHHHLHF	BHHHHLHHHLHF	BHHHHHHHHHF
264-267	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
268-271	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
272-275	BHHHHHHHHHF	BHHHHHHHLHF	BHHHHHHLLLHF	BHHHHHHHLHF
276-279	BHHHHHHHLHF	BHHHHHHHLHF	BHHHHHHLLLHF	BHHHHHHHHHF
280-283	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
284-287	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
288-291	BHHHHHHHHHF	BHHHHHLLLHF	BHHHLHHHLHF	BHHHHHLHHLF
292-295	BHHHHHLHHF	BHHHHHHHLHF	BHHHLLLHF	BHHHHHHHHHF
296-299	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
300-303	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
304-307	BHHHHHHHHHF	BHHHHHLLLHF	BHHHLHHHHHF	BHHHHHLHHLF
308-311	BHHHLHHHHF	BHHHLHHHHF	BHHHHHLLLHF	BHHHHHHHHHF
312-315	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
316-319	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
320-323	BHHHHHHHHHF	BHHHHHHHLHF	BHHHHHLHLHF	BHHHHHLHLHF
324-327	BHHHLLLLHF	BHHHHLHHHF	BHHHHHLHHHF	BHHHHHHHHHF
328-331	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
332-335	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
336-339	BHHHHHHHHHF	BHHHLLLLHF	BHHHHHHHLHF	BHHHHLLLHF
340-343	BHHHLHHHHF	BHHHLHHHF	BHHHHHLLLHF	BHHHHHHHHHF
344-347	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
348-351	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
352-355	BHHHHHHHHHF	BHHHLLLLHF	BHHHHHHHLHF	BHHHHHHHLHF
356-359	BHHHLLLLHF	BHHHLHHHF	BHHHLLLLHF	BHHHHHHHHHF
360-363	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
364-367	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
368-371	BHHHHHHHHHF	BHHHLLLLHF	BHHHLHHHHF	BHHHHHLHHLF
372-375	BHHHHHLHHHF	BHHHHHLHHHF	BHHHHHLHHHF	BHHHHHHHHHF
376-379	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
380-383	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
384-387	BHHHHHHHHHF	BHHHHHLLLHF	BHHHLHHHF	BHHHHHLLLHF
388-391	BHHHLHHHF	BHHHLHHHF	BHHHHHLLLHF	BHHHHHHHHHF
392-395	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
396-399	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
400-403	BHHHHHHHHHF	BHHHLLLLHF	BHHHLHHHF	BHHHLLLLHF
404-407	BHHHLHHHF	BHHHLHHHF	BHHHHHLLLHF	BHHHHHHHHHF
408-411	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
412-415	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
416-419	BHHHHHHHHHF	BHHLLLHLHF	BHLHHHLHHHF	BHLHHHHLLF
420-423	BHLHHHHHLHF	BHLHHHLHHF	BHLHHHLHF	BHLHLHHHF
424-427	BLHLHLHLHF	BHLHHHLHF	BHHHHHHHHHF	BHHHHHHHHHF
428-431	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
432-435	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
436-439	BHHHLHHHLHF	BHHHLHHHF	BHLHHHLHF	BHLHHHLHHHF
440-443	BHLHHHHHLHF	BLLHHHLLHF	BHHHHHHHHHF	BHHHHHHHHHF
444-447	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
448-451	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
452-455	BHHHHHHHHHF	BHLHLHLHF	BHLHLLHLHF	BHLHLHLHF
456-459	BHLHLHLHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
460-463	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
464-467	BHHHLHHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
468-471	BHHHLHHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHLHHF
472-475	BHHHHHLLLHF	BHHHHHLLHF	BHHHHHHHHHF	BHHHHHHHHHF
476-479	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
480-483	BHHHHHHHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
484-487	BHLHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
488-491	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
492-495	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
496-499	BHHHHHHHHHF	BLLLLHLHF	BLLHHHLHHHF	BHHHHHLHHHF
500-503	BHHHLHHHHF	BHHHLHHHF	BHHHLHHHF	BHHHHHLHHHF
504-507	BLLHHHLHHHF	BLLLLHLHF	BHHHHHHHHHF	BHHHHHHHHHF
508-511	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF E

MATH SYMBOL SET $\text{\u2014}=\text{(UNDERLINE)}$ (100=137B)

	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7
0								0								0							
1	X	X	X	X	X	X		1			X	X	X			1			X				
2	X	X	X	X	X			2		X		X				2							
3	X	X	X	X				3		X		X				3							
4	X	X	X					4	X	X	X	X				4			X		X		
5	X	X						5	X		X	X	X			5	X		X		X		
6	X	X						6	X			X		X		6	X		X		X		
7	X	X						7	X			X		X		7	X	X	X		X		
8	X	X						8	X			X		X		8	X	X	X		X		
9	X	X						9	X	X	X	X	X			9	X	X	X	X	X		
10								10	X							10	X						
11								11	X							11	X						
12								12								12							
13								13								13							
14								14								14							
	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7
0								0								0							
1								1			X	X				1			X				
2								2		X		X				2			X				
3		X	X	X				3				X				3			X				
4		X	X	X				4	X	X	X	X				4			X		X		
5		X	X	X				5	X			X	X	X		5			X	X			
6		X	X	X				6	X	X	X	X				6			X	X			
7		X	X	X				7	X				X			7			X		X		
8		X	X	X				8	X				X			8			X		X		
9		X	X	X				9	X	X	X	X				9	X		X		X		
10								10								10							
11								11								11							
12								12								12							
13								13								13							
14								14								14							
	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7
0								0								0							
1								1			X	X	X	X		1							
2								2		X			X			2							
3								3		X				X		3							
4		X	X	X	X			4	X					X		4			X	X	X		
5		X	X	X				5	X					X		5			X		X		
6		X	X					6	X					X		6			X	X			
7		X	X	X				7	X					X		7			X	X			
8		X	X	X				8	X		X			X		8			X	X	X		
9		X	X	X	X			9	X	X	X	X				9	X		X	X	X		
10								10	X							10							
11								11	X							11							
12								12								12							
13								13	X							13							
14								14								14							
	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7
0								0								0							
1								1								1							
2								2								2							
3								3								3							
4								4		X						4			X	X	X		
5								5		X						5			X		X		
6								6		X						6			X		X		
7								7		X						7			X		X		
8								8		X						8			X	X	X		
9								9	X	X	X	X				9	X		X	X	X		
10								10	X							10							
11								11	X							11							
12								12								12							
13								13	X							13							
14								14								14							

	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7
0								0							0								
1								1							1								
2								2							2								
3								3							3								
4	x	x	x	x	x	x	x	4	x	x	x	x	x	x	4	x	x	x	x	x	x	x	x
5	x	x	x	x	x	x	x	5	x	x	x	x	x	x	5	x	x	x	x	x	x	x	x
6	x	x	x	x	x	x	x	6	x	x	x	x	x	x	6	x	x	x	x	x	x	x	x
7	x	x	x	x	x	x	x	7	x	x	x	x	x	x	7	x	x	x	x	x	x	x	x
8	x	x	x	x	x	x	x	8	x	x	x	x	x	x	8	x	x	x	x	x	x	x	x
9	x	x	x	x	x	x	x	9	x	x	x	x	x	x	9	x	x	x	x	x	x	x	x
10								10							10								
11								11							11								
12								12							12								
13								13							13								
14								14							14								
	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7
0								0							0								
1								1	x	x	x				1	x	x	x					
2								2	x	x	x				2	x	x	x	x	x	x	x	
3								3	x						3	x							
4	x	x	x	x	x	x	x	4	x						4	x							
5	x	x	x	x	x	x	x	5	x	x	x				5	x	x	x	x	x	x	x	
6	x	x	x	x	x	x	x	6	x	x	x				6	x	x	x	x	x	x	x	
7	x	x	x	x	x	x	x	7	x	x	x				7	x	x	x	x	x	x	x	
8	x	x	x	x	x	x	x	8	x	x	x				8	x	x	x	x	x	x	x	
9	x	x	x	x	x	x	x	9	x	x	x	x	x	x	9	x	x	x	x	x	x	x	
10	x	x	x	x	x	x	x	10	x						10	x							
11	x	x	x	x	x	x	x	11	x	x	x	x	x	x	11	x	x	x	x	x	x	x	
12								12							12								
13								13							13								
14								14							14								
	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7
0								0							0								
1								1							1								
2								2							2								
3	x	x	x	x	x	x	x	3	x	x	x	x	x	x	3	x	x	x	x	x	x	x	
4	x	x	x	x	x	x	x	4	x						4	x							
5	x	x	x	x	x	x	x	5	x	x	x	x	x	x	5	x	x	x	x	x	x	x	
6	x	x	x	x	x	x	x	6	x	x	x	x	x	x	6	x	x	x	x	x	x	x	
7	x	x	x	x	x	x	x	7	x	x	x	x	x	x	7	x	x	x	x	x	x	x	
8	x	x	x	x	x	x	x	8	x	x	x	x	x	x	8	x	x	x	x	x	x	x	
9	x	x	x	x	x	x	x	9	x	x	x	x	x	x	9	x	x	x	x	x	x	x	
10								10							10								
11								11							11								
12								12							12								
13								13							13								
14								14							14								

MATH SYMBOL SET 0-(UNDERLINE) (100-1378)

01234567	01234567	01234567	01234567
0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH
1 LLLLLLHHH	1 HHHHHHHHH	1 HHHLLLHHH	1 HHHHHHHHH
2 LLLLHLHH	2 HHHHHHHHH	2 LHLHHLHH	2 HHHHHHHHH
3 LLLLHLHH	3 HHHHHHHHH	3 HHLLHHHH	3 HHHHHHHHH
4 LHLLHLHH	4 LHLLLHHH	4 LLHHHHHH	4 LHHHLHHH
5 LHHLHLHH	5 LLHHHLHH	5 LLHLLHHH	5 HLHHHLHH
6 LHHLHLHH	6 LLHHHLHH	6 LLHHHHHH	6 HLHHHLHH
7 LHHLHLHH	7 LLHHHLHH	7 LLHHHHHH	7 LLHLHHHH
8 LHHLHLHH	8 LLHHHLHH	8 LLHHHHHH	8 HHLLHHHH
9 LHHLHLHH	9 LHLLLHHH	9 LLHLLHHH	9 LHLLLHHH
10 HHHHHHHHH	10 HHHHHHHHH	10 LLHHHHHHH	10 HHLHHHHHH
11 HHHHHHHHH	11 HHHHHHHHH	11 LLHHHHHHH	11 LLHHHHHHH
12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH
13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH
14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH
15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH
	01234567	01234567	01234567
0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH
1 HHHHHHLHH	1 HHHHHHHHH	1 LHHLLHHHH	1 HHLHHHHHH
2 LHHHHHLHH	2 HHHHHHHHH	2 LHLHHHLHH	2 HHHLHHHHH
3 HHHLLLHHH	3 HHHHHHHHH	3 HHHHHHHHH	3 LHHLHHHHH
4 LHLHLHHH	4 HHHLLLHH	4 HHHHHHHHH	4 HHHLHHHH
5 HHLHLHLHH	5 LHLHHHHHH	5 HHLLHLHHH	5 LHLHHHHHH
6 HHLHLHLHH	6 HHLLHLHH	6 HLHHHHHH	6 HHHLHLHH
7 LHLLHLHHH	7 HHLLHHHHH	7 HLHHHHHH	7 LHLHLHHHH
8 HHHLLLHHH	8 LHLHHHHHH	8 HLHHHHHH	8 HHLHHHHHH
9 LHLHHHHHH	9 HHHLLLHHH	9 HHLLHHHH	9 LLHHHHHLH
10 HHLHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH
11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH
12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH
13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH
14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH
15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH
	01234567	01234567	01234567
0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH
1 HHHHHHHHH	1 HHHHHHHHH	1 LHLHHHHHH	1 HHHHHHHHH
2 HHHHHHHHH	2 HHHHHHHHH	2 HHLLHHHH	2 HHHHHHHHH
3 HHHHHHHHH	3 HHHHHHHHH	3 LLHHHHHH	3 HHHHHHHHH
4 LLHLLHHH	4 HHHLHHHH	4 HLHHHHHH	4 HHHLHHHH
5 HHLLHHHLH	5 HHHLHHHH	5 HHLLHHHH	5 HHHLHLHH
6 HHLHHHHHH	6 HHHLHHHH	6 HLHHHHHH	6 HHHLHHHH
7 HHLHHHHHH	7 HHHLHHHH	7 LLHHHHHH	7 LHLHLHHHH
8 HHLHHHHHH	8 HHHLHHHH	8 HLHHHHHH	8 HHLHHHHHH
9 HHLHHHHHH	9 LHLHHHHHH	9 LHLLHHHH	9 LLHHHHHH
10 LHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH
11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH
12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH
13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH
14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH
15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH
	01234567	01234567	01234567
0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH
1 HHHHHHHHH	1 HHHHHHHHH	1 HHHHHHHHH	1 HHHHHHHHH
2 HHHHHHHHH	2 HHHHHHHHH	2 HHHHHHHHH	2 HHHHHHHHH
3 HHHHHHHHH	3 HHHHHHHHH	3 HHHHHHHHH	3 HHHHHHHHH
4 HHLHHHHHH	4 LHLHHHHHH	4 LLHLLHHH	4 HHLLHHHH
5 LLHLLHHH	5 LHLHHHHHH	5 LHLHHHHH	5 LHLHLHHH
6 HLHLHLHH	6 LHLHHHHHH	6 LHLHHHHH	6 HHLHHHHH
7 HLHLHLHH	7 LHLHHHHHH	7 LHLHLHHH	7 HHLHHHHH
8 LLHLLHHH	8 LHLHHHHHH	8 LHLHLHHH	8 HHLHLHHH
9 HHLLHLHH	9 HHHLHHHH	9 LHLLHHHH	9 LLHLLHHH
10 HHHHHHHHH	10 LHLHHHHHH	10 HHHHHHHHH	10 LLHHHHHHH
11 HHHHHHHHH	11 LHLHHHHHH	11 HHHHHHHHH	11 LLHHHHHHH
12 HHHHHHHHH	12 HHLHHHHHH	12 HHHHHHHHH	12 LLHHHHHHH
13 HHHHHHHHH	13 LLHHHHHHH	13 HHHHHHHHH	13 LLHHHHHHH
14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH	14 LLHHHHHHH
15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH

01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 HHHHHHHH	1 HHHHHHHH	1 HHHLLLHH	1 HHHHHHHH
2 HHHHHHHH	2 HHHHHHHH	2 LHLHHLHH	2 HHHHHHHH
3 HHHHHHHH	3 HHHHHHHH	3 HHLLHHHL	3 HHHHHHHH
4 LLLLLLH	4 HHLLHLL	4 HHLLHHHL	4 HHLLLLH
5 HLHLHLHH	5 LLHLHLHH	5 HHLLLLH	5 LHLHLHHH
6 HHHLHLHH	6 HHHHLHHH	6 HHLLHHHL	6 HHLHHLHH
7 HHHLHLHH	7 LHHHLHHH	7 HHLLHHHL	7 HHLHHLHH
8 HHHLHLHH	8 LHLHLHHH	8 LHLLHLHH	8 HHLHLHHH
9 LHLHLHHH	9 LHLHLHHH	9 HHLLLHHH	9 LHLLLHHH
10 HHHHHHHH	10 LHHHLHHH	10 HHHHHHHH	10 HHHHHHHH
11 HHHHHHHH	11 LHHHLHHH	11 HHHHHHHH	11 HHHHHHHH
12 HHHHHHHH	12 LHHHLHHH	12 HHHHHHHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHLHHH	13 HHHHHHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 HHHHHHHH	1 LHLHLHH	1 HHHHHHHH	1 HHHHLHH
2 HHHHHHHH	2 HHLLLHH	2 HHHHHHHH	2 LHHHLHH
3 HHHHHHHH	3 LHLHHHHH	3 HHLLHLHH	3 LHHLHHHH
4 LLLLLLH	4 HHLLHHHH	4 LHLLLHHH	4 HHHLHLHH
5 HLHLHLHH	5 HHLLHLHH	5 HHHLHLHH	5 LHLLLHHH
6 HHHLHLHH	6 HHLLLHHH	6 LHLHHHLH	6 HHLHHLHH
7 HHHLHLHH	7 HHLLHHHH	7 HHLLHHHL	7 HHLHHLHH
8 HHHLHLHH	8 HHLLHHHH	8 LLHHHHHL	8 HHLHHLHH
9 LHHHLHHH	9 LHLLLHHH	9 HHLLLHHH	9 LHLLLHHH
10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH
11 HHHHHHHH	11 LHHLLHH	11 HHHHHHHH	11 HHHHHHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 HHHHHHHH	1 HHHHHHHH	1 LHLHHHH	1 HHHHLHH
2 HHHHHHHH	2 HHHHHHHH	2 LHLLLHH	2 HHLLLHH
3 HLLHHHLH	3 HHLLHHHH	3 HHLLLHH	3 HHLLLHH
4 LHLHLHHH	4 HLLHHHH	4 LHLHHHH	4 HHHLHLHH
5 HHHLHLHH	5 LHLHHHH	5 HHHLHHHH	5 HHHLHLHH
6 LHHLLHHH	6 HHHLHLHH	6 HHHLHHHH	6 HHHLHLHH
7 HHHLHLHH	7 HHHLHLHH	7 HHHLHHHH	7 HHHLHLHH
8 LHHLLHHH	8 HHHLHLHH	8 HHHLHHHH	8 HHHLHLHH
9 HHHLHLHH	9 LHLHHHH	9 HHLLLHHH	9 HHHLHLHH
10 LHLHLHHH	10 HHHHHHHH	10 LHHHHHLH	10 HHHHHHHH
11 HHLHHHL	11 HHHHHHHH	11 HHLLLHH	11 HHHHHHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 HHHHHHHH	1 HHLLHLHH	1 HHHHHHHH	1 HHHHLHHH
2 HHHHHHHH	2 LLHLHLHH	2 HHHHHHHH	2 HHHLHLHH
3 HHHHHLHH	3 HLHHHLHH	3 HHHLHHHH	3 HHHLHLHH
4 HHHLHLHH	4 HHHLHLHH	4 HHLLHHHH	4 HHHLHLHH
5 HLLLLLL	5 HHHLHLHH	5 HHLLLHHH	5 HHHLHLHH
6 HHHHHLHH	6 HHHLHLHH	6 HHLLHHHH	6 HHHLHLHH
7 HHHHHLHH	7 HHHLHLHH	7 HHHLHHHH	7 HHHLHLHH
8 HHHHHHHH	8 HHHLHLHH	8 HHHLHHHH	8 HHHLHLHH
9 HHHHHHHH	9 HHHLHLHH	9 HHHLHHHH	9 HHHLHLHH
10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH

MATH SYMBOL SET
 HEWLETT-PACKARD CO.
W-(UNDERLINE) (100-137B)
 MMI 4K PROM FORMAT
 GGGGGGGGGGGGGGGGGGGGGGGGGGG

0-	3	S	BHHHHHHHHF	BHLLLLLHLF	BHHLHLLLLF	BHHLHLLLLF
4-	7		BHHLHLLHLF	BHHLHLHHLF	BHHLHLHHLF	BHHLHLHHLF
8-	11		BHHLHLHHLF	BHHLHLHHLF	BHHHHHHHHF	BHHHHHHHHF
12-	15		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
16-	19		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
20-	23		BHHLLLHLF	BHHLHHHLLF	BHHLHHHLLF	BHHLHHHLLF
24-	27		BHHLHHHLLF	BHLLLLLHLF	BHHHHHHHHF	BHHHHHHHHF
28-	31		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
32-	35		BHHHHHHHHF	BHMLLLHHHF	BHHLHLHLF	BHLHHHLHHF
36-	39		BHHLHHHLLF	BHMLLLHLF	BHLHHHLLF	BHLHHHLLF
40-	43		BHLHHHLLF	BHMLLLLHF	BHHHHHHHLLF	BHHHHHHHLLF
44-	47		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
48-	51		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
52-	55		BHHHLHHHLF	BLHHLHHHLF	BLHHLHHHLF	BHLHHHLHLF
56-	59		BHLHHHLHF	BHMLLLHLF	BHHHHHLHHF	BHHHHHHHLLF
60-	63		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
64-	67		BHHHHHHHHF	BHLHHHHHHF	BHLHHHHLF	BHHLLLHHHF
68-	71		BHLLHLHLF	BHLHLHLHF	BHLHLHLHF	BHLHLHLHF
72-	75		BHLLLHHHF	BHHHHHLHF	BHHHHHLHF	BHHHHHHHHF
76-	79		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
80-	83		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
84-	87		BHLLLHHHF	BHHHHHLHHF	BHLLLHHHF	BHHHHHLHHF
88-	91		BHHHHHLHF	BHLLLHHHF	BHHHHHHHHF	BHHHHHHHHF
92-	95		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
96-	99		BHHHHHHHHF	BHHHHHLHHF	BHLHHHLHF	BHLHHHHHHF
100-	103		BHLHHHHHHF	BHLHLLLHF	BHLHHHHLF	BHLHHHHHLF
104-	107		BHLHHHHHLF	BHMLLLLHF	BHHHHHHHHF	BHHHHHHHHF
108-	111		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
112-	115		BHHHHHHHHF	BHHHHHLHHF	BHHHHHLHHF	BHHHHHLHHF
116-	119		BHHHLHHHF	BHHMLHHHF	BHLHLHHHF	BHLHHHLHF
120-	123		BHLHHHLHF	BHLHHHLLF	BHHHHHHHHF	BHHHHHHHHF
124-	127		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
128-	131		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
132-	135		BHMLLHLHF	BHLHLLLHF	BHLHHMLHF	BHLHHHLHHF
136-	139		BHLHHHLHF	BHLHHHLHF	BHLHHHHLF	BHHHHHHHHF
140-	143		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
144-	147		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
148-	151		BHHHHHLHHF	BHHHHHLHHF	BHHHHHLHHF	BHHHHHLHHF
152-	155		BHLHLHHHF	BHHHLHHHF	BHHHHHHHHF	BHHHHHHHHF
156-	159		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
160-	163		BHHHHHHHHF	BHMLLLLHF	BHLHHHLHF	BHLHHHHHLF
164-	167		BLHHHHHLHF	BLLLLLLHF	BLHHHHHLHF	BHLHHHHLLF
168-	171		BHLHHHLHF	BHMLLLLHF	BHHHHHHHHF	BHHHHHHHHF
172-	175		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
176-	179		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
180-	183		BHLHLHHHF	BHLHLHHHF	BHHHLHHHF	BHHHLHLHF
184-	187		BHLHLHHHF	BHMLHHMLHF	BHHHHHHHHF	BHHHHHHHHF
188-	191		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
192-	195		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
196-	199		BHLHHHLHF	BHLHHHLLHF	BLHHLHLHF	BLHLHHLHF
200-	203		BHLHLLHLF	BHLHLLHF	BHHHHHHHHF	BHHHHHHHHF
204-	207		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
208-	211		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
212-	215		BHLHHHLHF	BHLHHHLHF	BHLHHHLHF	BHLHHHLHF
216-	219		BHLHHHLHF	BHMLLLLHF	BHHHHHLHF	BHHHHHLHF
220-	223		BHHHHHLHF	BHHHHHHHLLF	BHHHHHHHHF	BHHHHHHHHF
224-	227		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
228-	231		BHLHHHLLF	BHLHHHLHF	BHLHHHLHF	BHLHHHLHF
232-	235		BHHHLHLHF	BHHMLLLHF	BHHHHHHHHF	BHHHHHHHHF
236-	239		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
240-	243		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
244-	247		BHMLLHHHF	BHLHHHLHF	BHLHHHLHF	BHLHHHLHF
248-	251		BHLHHHLHF	BHMLLLLHF	BHHHHHHLLF	BHHHHHHLLF
252-	255		BHHHHHHLLF	BHHHHHHLLF	BHHHHHHLLF	BHHHHHHHHF

256-259	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
260-263	BHLLL LLLL HF	BHHLHLHLHF	BHHLHLHHHF	BHHLHLHHHF
264-267	BHHHLHLHHHF	BHHHLHHHLHF	BHHHHHHHHHF	BHHHHHHHHHF
268-271	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
272-275	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
276-279	BLLHHHLHHHF	BHHHLHLHLLF	BHHHLHHHHF	BHHHLHHHHF
280-283	BHHHLHLHHLF	BHHHLHLHHHF	BHHHLHLHHF	BHHHLHLHHF
284-287	BHHHLHLHHLF	BHHHLHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
288-291	BHHHHHHHHHF	BHHLLLHHHF	BHHLHHHLHF	BHLHHHLHHF
292-295	BHLHHHLHHHF	BHLLLLLHHF	BHLHHHLHHF	BHLHHHLHHF
296-299	BHHHLHLHLF	BHHLLLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
300-303	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
304-307	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
308-311	BHLLLHHHF	BHHHLHLHLLF	BHHLHLHLHF	BHHLHLHLHF
312-315	BHHHLHLHHHF	BHHHLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
316-319	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
320-323	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
324-327	BHLLL LLLL HF	BHHHLHHHLHF	BHHHLHHHHF	BHHHLHHHHF
328-331	BHHHLHHHHF	BHHHLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
332-335	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
336-339	BHHHHHHHHHF	BHHHLHLHF	BHHLLLHHHF	BHHHHHLHLF
340-343	BHHHHHLHHHF	BHHLLLHHHF	BHHLLLHHF	BHHHHHLHHF
344-347	BHHHHHLHHHF	BHHLLLHHHF	BHLHHHHHF	BHHLLLHHLF
348-351	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
352-355	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHLHHHHF
356-359	BHHHHLLHHLF	BHHHLHLHHF	BHHLHLHLHF	BHLHHHLHHF
360-363	BHLHHHHHLF	BLLLL LLLL HF	BHHHHHHHHHF	BHHHHHHHHHF
364-367	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
368-371	BHHHHHHHHHF	BHHHLHHHF	BHHHLHLHLLF	BHHMLHLHHF
372-375	BHHHLHHHHF	BHHHLHHHF	BHHLHLHHHF	BHHLHLHHHF
376-379	BHHHLHHHHF	BHHHLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
380-383	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
384-387	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHLHHHLHHF
388-391	BHHHLHLHF	BHHHLHLHHF	BHHHLHHHF	BHHHLHHHF
392-395	BHHHLHHHF	BHHHLHHHF	BHLHHHLHF	BLLHHHLHHF
396-399	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
400-403	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
404-407	BLLHHHHLLHF	BHLHHHLHF	BHLHHLHHHF	BHLHHLHHHF
408-411	BHLHHHLHHHF	BHLLLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
412-415	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
416-419	BHHHHHHHHHF	BHHHHHLHLHF	BHHLLHLHF	BHHLLLHHHF
420-423	BHHHHHLHLHF	BHHHHHLHHHF	BHHHHHLHF	BHHHHHLHHF
424-427	BHHHHHHHHHF	BHLLLHHHF	BHLHHHHHF	BHLLLHHHHF
428-431	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
432-435	BHHHHHHHHHF	BHHHLHHHHF	BHHLLLHHHF	BHLLLLHHHF
436-439	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF
440-443	BHHHLHHHHF	BHHHLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
444-447	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
448-451	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHLHHHHF
452-455	BHLLHHHHHF	BLLLL LLLL HF	BHLLHHHHHF	BHHHLHHHHF
456-459	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
460-463	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
464-467	BHHHHHHHHHF	BHLLHLHHHF	BHLHLHHHF	BLHHLHHHF
468-471	BHHHLHHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
472-475	BHHHLHHHHF	BHHHLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
476-479	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
480-483	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHLHHHF
484-487	BHHHHHLHHHF	BLLLL LLLL HF	BHHHHHLHHF	BHHHLHHHF
488-491	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
492-495	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
496-499	BHHHHHHHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
500-503	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHLLLHHHF
504-507	BHHLLLHHHF	BHHHLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
508-511	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF E

LINE DRAWING SET BITS 0-7 (SPACE)-? (40-77B)

CHARACTER	DOT COLUMN	CHARACTER	DOT COLUMN
0	0 1 2 3 4 5 6 7 8	1	0 1 2 3 4 5 6 7 8
0	X X X	0	X X X
1	X X X	1	X X X
2	X X X	2	X X X
3	X X X	3	X X X
4	X X X	4	X X X
5	X X X	5	X X X
6	X X X	6	X X X
7	X X X X X X X	7	X X X X X X X
8	X X X	8	X X X X X X X
9	X X X	9	X X X
10	X X X	10	X X X
11	X X X	11	X X X
12	X X X	12	X X X
13	X X X	13	X X X
14	X X X	14	X X X

CHARACTER	DOT COLUMN	CHARACTER	DOT COLUMN
2	0 1 2 3 4 5 6 7 8	3	0 1 2 3 4 5 6 7 8
0	X X X	0	
1	X X X	1	
2	X X X	2	
3	X X X	3	
4	X X X	4	
5	X X X	5	
6	X X X	6	X X X X X X X X X
7	X X X X X X X	7	X X X X X X X X X
8	X X X	8	X X X X X X X X X
9	X X X	9	X
10	X X X	10	X
11	X X X	11	X
12	X X X	12	X
13	X X X	13	X
14	X X X	14	X

CHARACTER	DOT COLUMN	CHARACTER	DOT COLUMN
4	0 1 2 3 4 5 6 7 8	5	0 1 2 3 4 5 6 7 8
0	X	0	X X
1	X	1	X X
2	X	2	X X
3	X	3	X X
4	X	4	X X
5	X	5	X X
6	X X X X X X X X X	6	X X
7	X X X X X X X X X	7	X X X X
8	X X X X X X X X X	8	X X X X
9		9	X X
10		10	X X
11		11	X X
12		12	X X
13		13	X X
14		14	X X

CHARACTER	DOT COLUMN	CHARACTER	DOT COLUMN
6	0 1 2 3 4 5 6 7 8	7	0 1 2 3 4 5 6 7 8
0	X X X	0	
1	X X X	1	
2	X X X	2	
3	X X X	3	
4	X X X	4	
5	X X X	5	X X X X X X X X X
6	X X X	6	
7	X X X	7	
8	X X X	8	
9	X X X	9	X X X X X X X X X
10	X X X	10	X X
11	X X X	11	X X
12	X X X	12	X X
13	X X X	13	X X
14	X X X	14	X X

	CHARACTER	DOT COLUMN		CHARACTER	DOT COLUMN
8	0 1 2 3 4 5 6 7 8		9	0 1 2 3 4 5 6 7 8	
0	X		0	X	X
1	X		1	X	X
2	X		2	X	X
3	X		3	X	X
4	X		4	X	X
5	X X X X X X X X X		5	X	X
6			6	X	X
7			7	X	X
8			8	X	X
9	X X X X X X X X X		9	X	X
10			10	X	X
11			11	X	X
12			12	X	X
13			13	X	X
14			14	X	X

	CHARACTER	DOT COLUMN		CHARACTER	DOT COLUMN
10	0 1 2 3 4 5 6 7 8		11	0 1 2 3 4 5 6 7 8	
0	X X X		0		X
1	X X X		1		X
2	X X X		2		X
3	X X X		3		X
4	X X X		4		X
5	X X X		5		X
6	X X X X		6	X X X X X X X X X X	
7	X X X X X X X X X		7	X X X X X X X X X X	
8	X X X		8	X X X X X X X X X X	
9	X X X		9		X
10	X X X		10		X
11	X X X		11		X
12	X X X		12		X
13	X X X		13		X
14	X X X		14		X

	CHARACTER	DOT COLUMN		CHARACTER	DOT COLUMN
12	0 1 2 3 4 5 6 7 8		13	0 1 2 3 4 5 6 7 8	
0			0		X
1			1		X
2			2		X
3			3		X
4			4		X
5			5		X
6			6		X
7	X X X X X X X X X		7		X
8			8		X
9			9		X
10			10		X
11			11		X
12			12		X
13			13		X
14			14		X X X X X

	CHARACTER	DOT COLUMN		CHARACTER	DOT COLUMN
14	0 1 2 3 4 5 6 7 8		15	0 1 2 3 4 5 6 7 8	
0	X		0		X
1	X		1		X
2	X		2		X
3	X		3		X
4	X		4		X
5	X		5		X
6	X		6		X
7	X		7	X X X X X X X X X	
8	X		8		X
9	X		9		X
10	X		10		X
11	X		11		X
12	X		12		X
13	X		13		X
14	X		14		X

LINE DRAWING SET BITS 0-8 SPACE)-? (40-77B)

CHARACTER DOT COLUMN									CHARACTER DOT COLUMN										
16	0	1	2	3	4	5	6	7	8	17	0	1	2	3	4	5	6	7	8
0		X	X	X						0		X	X	X					
1		X	X	X						1		X	X	X					
2		X	X	X						2		X	X	X					
3		X	X	X						3		X	X	X					
4		X	X	X						4		X	X	X					
5		X	X	X						5		X	X	X					
6	X	X	X	X	X	X	X	X	X	6		X	X	X	X	X	X	X	X
7	X	X	X	X	X	X	X	X	X	7		X	X	X	X	X	X	X	X
8	X	X	X	X	X	X	X	X	X	8		X	X	X	X	X	X	X	X
9		X	X	X						9		X	X	X					
10		X	X	X						10			X	X	X				
11		X	X	X						11			X	X	X				
12		X	X	X						12			X	X	X				
13		X	X	X						13			X	X	X				
14		X	X	X						14			X	X	X				
18	0	1	2	3	4	5	6	7	8	19	0	1	2	3	4	5	6	7	8
0		X	X	X						0									
1		X	X	X						1									
2		X	X	X						2									
3		X	X	X						3									
4		X	X	X						4									
5		X	X	X						5									
6	X	X	X	X	X	X	X	X	X	6		X	X	X	X	X	X	X	X
7	X	X	X	X	X	X	X	X	X	7		X	X	X	X	X	X	X	X
8	X	X	X	X	X	X	X	X	X	8		X	X	X	X	X	X	X	X
9		X	X	X						9			X	X	X				
10		X	X	X						10			X	X	X				
11		X	X	X						11			X	X	X				
12		X	X	X						12			X	X	X				
13		X	X	X						13			X	X	X				
14		X	X	X						14			X	X	X				
20	0	1	2	3	4	5	6	7	8	21	0	1	2	3	4	5	6	7	8
0		X	X	X						0			X						
1		X	X	X						1			X						
2		X	X	X						2			X						
3		X	X	X						3			X						
4		X	X	X						4			X						
5		X	X	X						5			X						
6	X	X	X	X	X	X	X	X	X	6			X						
7	X	X	X	X	X	X	X	X	X	7			X	X	X	X			
8	X	X	X	X	X	X	X	X	X	8			X						
9										9			X						
10										10			X						
11										11			X						
12										12			X						
13										13			X						
14										14			X						
22	0	1	2	3	4	5	6	7	8	23	0	1	2	3	4	5	6	7	8
0			X							0									
1			X							1									
2			X							2									
3			X							3									
4			X							4									
5			X							5									
6			X							6									
7	X	X	X	X	X	X	X	X	X	7		X	X	X	X	X	X	X	X
8		X								8			X						
9		X								9			X						
10		X								10			X						
11		X								11			X						
12		X								12			X						
13		X								13			X						
14		X								14			X						

	CHARACTER	DOT COLUMN		CHARACTER	DOT COLUMN
24	0 1 2 3 4 5 6 7 8		25	0 1 2 3 4 5 6 7 8	
0	X		0		
1	X		1		
2	X		2		
3	X		3		
4	X		4		
5	X		5	X X X X X X X X X	
6	X		6		
7	X X X X X X X X X		7		
8			8		
9			9	X X X X X X X X X	
10			10		
11			11		
12			12		
13			13		
14			14		

	CHARACTER	DOT COLUMN		CHARACTER	DOT COLUMN
26	0 1 2 3 4 5 6 7 8		27	0 1 2 3 4 5 6 7 8	
0	X X X		0		
1	X X X		1		
2	X X X		2		
3	X X X		3		
4	X X X		4		
5	X X X		5		
6	X X X		6	X X X X X X X X X	
7	X X X		7	X X X X X X X X X	
8	X X X		8	X X X X X X X X X	
9	X X X		9		
10	X X X		10		
11	X X X		11		
12	X X X		12		
13	X X X		13		
14	X X X		14		

	CHARACTER	DOT COLUMN		CHARACTER	DOT COLUMN
28	0 1 2 3 4 5 6 7 8		29	0 1 2 3 4 5 6 7 8	
0	X X		0	X X X X X	
1	X X		1	X	
2	X X		2	X	
3	X X		3	X	
4	X X		4	X	
5	X X		5	X	
6	X X		6	X	
7	X X X X X X X X X		7	X	
8	X X X X X X X X X		8	X	
9	X X X X X X X X X		9	X	
10	X X X X X X X X X		10	X	
11	X X X X X X X X X		11	X	
12	X X X X X X X X X		12	X	
13	X X X X X X X X X		13	X	
14	X X X X X X X X X		14	X	

	CHARACTER	DOT COLUMN		CHARACTER	DOT COLUMN
30	0 1 2 3 4 5 6 7 8		31	0 1 2 3 4 5 6 7 8	
0	X		0	X X	
1	X		1	X X	
2	X		2	X X	
3	X		3	X X	
4	X		4	X X	
5	X X X X X X X X X		5	X X X X X X X X X	
6	X		6	X X	
7	X		7	X X	
8	X		8	X X	
9	X X X X X X X X X		9	X X X X X X X X X	
10	X		10	X X	
11	X		11	X X	
12	X		12	X X	
13	X		13	X X	
14	X		14	X X	

LINE DRAWING SET BITS 0-7 (SPACE) -? (40-778)

01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHLLLHH	0 HHHLLLHH	0 HHHHHHHH
1 HHHHHHHH	1 HHHLLLHH	1 HHHLLLHH	1 HHHHHHHH
2 HHHHHHHH	2 HHHLLLHH	2 HHHLLLHH	2 HHHHHHHH
3 HHHHHHHH	3 HHHLLLHH	3 HHHLLLHH	3 HHHHHHHH
4 HHHHHHHH	4 HHHLLLHH	4 HHHLLLHH	4 HHHHHHHH
5 HHHHHHHH	5 HHHLLLHH	5 HHHLLLHH	5 HHHHHHHH
6 HHHHHHHH	6 HHHLLLHH	6 HHHLLLHH	6 LLLLLLLL
7 HHHHHHHH	7 HHHLLLL	7 LLLLLLHH	7 LLLLLLLL
8 HHHHHHHH	8 HHHLLLHH	8 HHHLLLHH	8 LLLLLLLL
9 HHHHHHHH	9 HHHLLLHH	9 HHHLLLHH	9 HHHHLHHH
10 HHHHHHHH	10 HHHLLLHH	10 HHHLLLHH	10 HHHHLHHH
11 HHHHHHHH	11 HHHLLLHH	11 HHHLLLHH	11 HHHHLHHH
12 HHHHHHHH	12 HHHLLLHH	12 HHHLLLHH	12 HHHHLHHH
13 HHHHHHHH	13 HHHLLLHH	13 HHHLLLHH	13 HHHHLHHH
14 HHHHHHHH	14 HHHLLLHH	14 HHHLLLHH	14 HHHHLHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
	01234567	01234567	01234567
0 HHHHLHHH	0 HHLHHHLH	0 HHLHHHLH	0 HHHHHHHH
1 HHHHLHHH	1 HHLHHHLH	1 HHLHHHLH	1 HHHHHHHH
2 HHHHLHHH	2 HHLHHHLH	2 HHLHHHLH	2 HHHHHHHH
3 HHHHLHHH	3 HHLHHHLH	3 HHLHHHLH	3 HHHHHHHH
4 HHHHLHHH	4 HHLHHHLH	4 HHLHHHLH	4 HHHHHHHH
5 HHHHLHHH	5 HHLHHHLH	5 HHLHHHLH	5 LLLLLLLL
6 LLLLLLLL	6 HHLHHHLH	6 HHLHHHLH	6 HHHHHHHH
7 LLLLLLLL	7 HHLHHHL	7 LLLLHHHL	7 HHHHHHHH
8 LLLLLLLL	8 HHLHHHLH	8 HHLHHHLH	8 HHHHHHHH
9 HHHHHHHH	9 HHLHHHLH	9 HHLHHHLH	9 LLLLLLLL
10 HHHHHHHH	10 HHLHHHLH	10 HHLHHHLH	10 HHHHLHHH
11 HHHHHHHH	11 HHLHHHLH	11 HHLHHHLH	11 HHHHLHHH
12 HHHHHHHH	12 HHLHHHLH	12 HHLHHHLH	12 HHHHLHHH
13 HHHHHHHH	13 HHLHHHLH	13 HHLHHHLH	13 HHHHLHHH
14 HHHHHHHH	14 HHLHHHLH	14 HHLHHHLH	14 HHHHLHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
	01234567	01234567	01234567
0 HHHHLHHH	0 HHLHHHLH	0 HHHLLLHH	0 HHHHLHHH
1 HHHHLHHH	1 HHLHHHLH	1 HHHLLLHH	1 HHHHLHHH
2 HHHHLHHH	2 HHLHHHLH	2 HHHLLLHH	2 HHHHLHHH
3 HHHHLHHH	3 HHLHHHLH	3 HHHLLLHH	3 HHHHLHHH
4 HHHHLHHH	4 HHLHHHLH	4 HHHLLLHH	4 HHHHLHHH
5 LLLLLLLL	5 HHLHHHLH	5 HHHLLLHH	5 HHHHLHHH
6 HHHHHHHH	6 HHLHHHLH	6 HHHLLLHH	6 LLLLLLLL
7 HHHHHHHH	7 HHLHHHLH	7 LLLLLLLL	7 LLLLLLLL
8 HHHHHHHH	8 HHLHHHLH	8 HHHLLLHH	8 LLLLLLLL
9 LLLLLLLL	9 HHLHHHLH	9 HHHLLLHH	9 HHHHLHHH
10 HHHHHHHH	10 HHLHHHLH	10 HHHLLLHH	10 HHHHLHHH
11 HHHHHHHH	11 HHLHHHLH	11 HHHLLLHH	11 HHHHLHHH
12 HHHHHHHH	12 HHLHHHLH	12 HHHLLLHH	12 HHHHLHHH
13 HHHHHHHH	13 HHLHHHLH	13 HHHLLLHH	13 HHHHLHHH
14 HHHHHHHH	14 HHLHHHLH	14 HHHLLLHH	14 HHHHLHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHLHHH	0 HHHHLHHH	0 HHHHLHHH
1 HHHHHHHH	1 HHHHLHHH	1 HHHLHHHH	1 HHHHLHHH
2 HHHHHHHH	2 HHHHLHHH	2 HHHLHHHH	2 HHHHLHHH
3 HHHHHHHH	3 HHHHLHHH	3 HHHLHHHH	3 HHHHLHHH
4 HHHHHHHH	4 HHHHLHHH	4 HHHLHHHH	4 HHHHLHHH
5 HHHHHHHH	5 HHHHLHHH	5 HHHLHHHH	5 HHHHLHHH
6 HHHHHHHH	6 HHHHLHHH	6 HHHLHHHH	6 HHHHLHHH
7 LLLLLLLL	7 HHHHLHHH	7 HHHLHHHH	7 LLLLLLLL
8 HHHHHHHH	8 HHHHLHHH	8 HHHLHHHH	8 HHHHLHHH
9 HHHHHHHH	9 HHHHLHHH	9 HHHLHHHH	9 HHHHLHHH
10 HHHHHHHH	10 HHHHLHHH	10 HHHLHHHH	10 HHHHLHHH
11 HHHHHHHH	11 HHHHLHHH	11 HHHLHHHH	11 HHHHLHHH
12 HHHHHHHH	12 HHHHLHHH	12 HHHLHHHH	12 HHHHLHHH
13 HHHHHHHH	13 HHHHLHHH	13 HHHLHHHH	13 HHHHLHHH
14 HHHHHHHH	14 HHHHLLLL	14 HHHLHHHH	14 HHHHLHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH

01234567	01234567	01234567	01234567
0 HHHLLLHH	0 HHHLLLHH	0 HHHLLLHH	0 HHHHHHHH
1 HHHLLLHH	1 HHHLLLHH	1 HHHLLLHH	1 HHHHHHHH
2 HHHLLLHH	2 HHHLLLHH	2 HHHLLLHH	2 HHHHHHHH
3 HHHLLLHH	3 HHHLLLHH	3 HHHLLLHH	3 HHHHHHHH
4 HHHLLLHH	4 HHHLLLHH	4 HHHLLLHH	4 HHHHHHHH
5 HHHLLLHH	5 HHHLLLHH	5 HHHLLLHH	5 HHHHHHHH
6 LLLLLLLL	6 HHHLLLLL	6 LLLLLLLL	6 LLLLLLLL
7 LLLLLLLL	7 HHHLLLLL	7 LLLLLLLL	7 LLLLLLLL
8 LLLLLLLL	8 HHHLLLLL	8 LLLLLLLL	8 LLLLLLLL
9 HHHLLLLL	9 HHHLLLLL	9 HHHLLLLL	9 HHHLLLLL
10 HHHLLLHH	10 HHHLLLHH	10 HHHLLLHH	10 HHHLLLHH
11 HHHLLLHH	11 HHHLLLHH	11 HHHLLLHH	11 HHHLLLHH
12 HHHLLLHH	12 HHHLLLHH	12 HHHLLLHH	12 HHHLLLHH
13 HHHLLLHH	13 HHHLLLHH	13 HHHLLLHH	13 HHHLLLHH
14 HHHLLLHH	14 HHHLLLHH	14 HHHLLLHH	14 HHHLLLHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
01234567	01234567	01234567	01234567
0 HHHLLLHH	0 HHHHLHHH	0 HHHHLHHH	0 HHHHHHHH
1 HHHLLLHH	1 HHHHLHHH	1 HHHHLHHH	1 HHHHHHHH
2 HHHLLLHH	2 HHHHLHHH	2 HHHHLHHH	2 HHHHHHHH
3 HHHLLLHH	3 HHHHLHHH	3 HHHHLHHH	3 HHHHHHHH
4 HHHLLLHH	4 HHHHLHHH	4 HHHHLHHH	4 HHHHHHHH
5 HHHLLLHH	5 HHHHLHHH	5 HHHHLHHH	5 HHHHHHHH
6 LLLLLLLL	6 HHHHLHHH	6 HHHHLHHH	6 HHHHHHHH
7 LLLLLLLL	7 HHHHLHHH	7 LLLLLHHH	7 LLLLLLLL
8 LLLLLLLL	8 HHHHLHHH	8 HHHHLHHH	8 HHHHLHHH
9 HHHHHHHH	9 HHHHLHHH	9 HHHHLHHH	9 HHHHLHHH
10 HHHHHHHH	10 HHHHLHHH	10 HHHHLHHH	10 HHHHLHHH
11 HHHHHHHH	11 HHHHLHHH	11 HHHHLHHH	11 HHHHLHHH
12 HHHHHHHH	12 HHHHLHHH	12 HHHHLHHH	12 HHHHLHHH
13 HHHHHHHH	13 HHHHLHHH	13 HHHHLHHH	13 HHHHLHHH
14 HHHHHHHH	14 HHHHLHHH	14 HHHHLHHH	14 HHHHLHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHLHHH	0 HHHHHHHH	0 HHHLLLHH	0 HHHHHHHH
1 HHHHLHHH	1 HHHHHHHH	1 HHHLLLHH	1 HHHHHHHH
2 HHHHLHHH	2 HHHHHHHH	2 HHHLLLHH	2 HHHHHHHH
3 HHHHLHHH	3 HHHHHHHH	3 HHHLLLHH	3 HHHHHHHH
4 HHHHLHHH	4 HHHHHHHH	4 HHHLLLHH	4 HHHHHHHH
5 HHHHLHHH	5 LLLLLLLL	5 HHHLLLHH	5 HHHHHHHH
6 HHHHLHHH	6 HHHHHHHH	6 HHHLLLHH	6 LLLLLLLL
7 LLLLLLLL	7 HHHHHHHH	7 HHHLLLHH	7 LLLLLLLL
8 HHHHHHHH	8 HHHHHHHH	8 HHHLLLHH	8 LLLLLLLL
9 HHHHHHHH	9 LLLLLLLL	9 HHHLLLHH	9 HHHHHHHH
10 HHHHHHHH	10 HHHHHHHH	10 HHHLLLHH	10 HHHHHHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHLLLHH	11 HHHHHHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHLLLHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHHLLLHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHLLLHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
01234567	01234567	01234567	01234567
0 HHLHHHLH	0 HHHHLLLL	0 HHHHLHHH	0 HHLHHHLH
1 HHLHHHLH	1 HHHHLHHH	1 HHHHLHHH	1 HHLHHHLH
2 HHLHHHLH	2 HHHHLHHH	2 HHHHLHHH	2 HHLHHHLH
3 HHLHHHLH	3 HHHHLHHH	3 HHHHLHHH	3 HHLHHHLH
4 HHLHHHLH	4 HHHHLHHH	4 HHHHLHHH	4 HHLHHHLH
5 HHLHHHLH	5 HHHHLHHH	5 LLLLLLLL	5 LLLLLLLL
6 HHLHHHLH	6 HHHHLHHH	6 HHHHLHHH	6 HHLHHHLH
7 LLLLLLLL	7 HHHHLHHH	7 HHHHLHHH	7 HHLHHHLH
8 HHLHHHLH	8 HHHHLHHH	8 HHHHLHHH	8 HHLHHHLH
9 HHLHHHLH	9 HHHHLHHH	9 LLLLLLLL	9 LLLLLLLL
10 HHLHHHLH	10 HHHHLHHH	10 HHHHLHHH	10 HHLHHHLH
11 HHLHHHLH	11 HHHHLHHH	11 HHHHLHHH	11 HHLHHHLH
12 HHLHHHLH	12 HHHHLHHH	12 HHHHLHHH	12 HHLHHHLH
13 HHLHHHLH	13 HHHHLHHH	13 HHHHLHHH	13 HHLHHHLH
14 HHLHHHLH	14 HHHHLHHH	14 HHHHLHHH	14 HHLHHHLH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH

LINE DRAWING SET BITS 0-7

HEWLETT-PACKARD CO.

(SPACE) -? (40-77B)

MMI 4K PROM FORMAT

GGGGGGGGGGGGGGGGGGGGGGGGGGGG

000-003	S	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
004-007		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
008-011		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
012-015		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
016-019		BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF
020-023		BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF
024-027		BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF
028-031		BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHHHHHHHHF
032-035		BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF
036-039		BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF
040-043		BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF
044-047		BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHHHHHHHHF
048-051		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
052-055		BHHHHHHHHHF	BHHHHHHHHHF	BLLLLLLLHF	BLLLLLLLHF
056-059		BLLLLLLLHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
060-063		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHHF
064-067		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
068-071		BHHHLHHHF	BHHHLHHHF	BLLLLLLLHF	BLLLLLLLHF
072-075		BLLLLLLLHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
076-079		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
080-083		BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF
084-087		BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BLLHHHLHHF
088-091		BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF
092-095		BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BHHHHHHHHHF
096-099		BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF
100-103		BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF
104-107		BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF
108-111		BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BHHHHHHHHHF
112-115		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
116-119		BHHHHHHHHHF	BLLLLLLLHF	BHHHHHHHHHF	BHHHHHHHHHF
120-123		BHHHHHHHHHF	BLLLLLLLHF	BHHHLHHHF	BHHHLHHHF
124-127		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHHF
128-131		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
132-135		BHHHLHHHF	BLLLLLLLHF	BHHHHHHHHHF	BHHHHHHHHHF
136-139		BHHHHHHHHHF	BLLLLLLLHF	BHHHHHHHHHF	BHHHHHHHHHF
140-143		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
144-147		BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF
148-151		BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF
152-155		BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF
156-159		BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BHHHHHHHHHF
160-163		BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF
164-167		BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BLLLLLLLHF
168-171		BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF
172-175		BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHHHHHHHHF
176-179		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
180-183		BHHHLHHHF	BHHHLHHHF	BLLLLLLLHF	BLLLLLLLHF
184-187		BLLLLLLLHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
188-191		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHHF
192-195		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
196-199		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BLLLLLLLHF
200-203		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
204-207		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
208-211		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
212-215		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
216-219		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
220-223		BHHHLHHHF	BHHHLHHHF	BLLLLHHHF	BHHHHHHHHHF
224-227		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
228-231		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
232-235		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
236-239		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHHF
240-243		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
244-247		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BLLLLLLLHF
248-251		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
252-255		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHHF

256-259	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF
260-263	BHHLLLHHHF	BHHLLLHHHF	BLLLLLFFFF	BLLLLLFFFF
264-267	BLLLLLFFFF	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF
268-271	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHHHHHHHHF
272-275	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF
276-279	BHHLLLHHHF	BHHLLLHHHF	BLLLLLHHHF	BLLLLLHHHF
280-283	BLLLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF
284-287	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHHHHHHHHF
288-291	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF
292-295	BHHLLLHHHF	BHHLLLHHHF	BHHLLLLLFF	BHHLLLLLFF
296-299	BHHLLLLLFF	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF
300-303	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHHHHHHHHF
304-307	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
308-311	BHHHHHHHHHF	BHHHHHHHHHF	BLLLLLFFFF	BLLLLLFFFF
312-315	BLLLLLFFFF	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF
316-319	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHHHHHHHHF
320-323	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF
324-327	BHHLLLHHHF	BHHLLLHHHF	BLLLLLFFFF	BLLLLLFFFF
328-331	BLLLLLFFFF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
332-335	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
336-339	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF
340-343	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF	BLLLHHHHF
344-347	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF
348-351	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF	BHHHHHHHHHF
352-355	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF
356-359	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF	BHHHLLFFFF
360-363	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF
364-367	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF	BHHHHHHHHHF
368-371	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
372-375	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BLLLLLFFFF
376-379	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF
380-383	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF	BHHHHHHHHHF
384-387	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF
388-391	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF	BLLLLLFFFF
392-395	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
396-399	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
400-403	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
404-407	BHHHHHHHHHF	BLLLLLFFFF	BHHHHHHHHHF	BHHHHHHHHHF
408-411	BHHHHHHHHHF	BLLLLLFFFF	BHHHHHHHHHF	BHHHHHHHHHF
412-415	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
416-419	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF
420-423	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF
424-427	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF
428-431	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHHHHHHHHF
432-435	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
436-439	BHHHHHHHHHF	BHHHHHHHHHF	BLLLLLFFFF	BLLLLLFFFF
440-443	BLLLLLFFFF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
444-447	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
448-451	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF
452-455	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BLLLLLFFFF
456-459	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF
460-463	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BHHHHHHHHHF
464-467	BLLLHHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
468-471	BHHHLHHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
472-475	BHHHLHHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
476-479	BHHHLHHHHF	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHHF
480-483	BHHHLHHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
484-487	BHHHLHHHHF	BLLLLLFFFF	BHHHLHHHF	BHHHLHHHF
488-491	BHHHLHHHHF	BLLLLLFFFF	BHHHLHHHF	BHHHLHHHF
492-495	BHHHLHHHHF	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHHF
496-499	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF
500-503	BHLHHHLHHF	BLLLLLFFFF	BHLHHHLHHF	BHLHHHLHHF
504-507	BHLHHHLHHF	BLLLLLFFFF	BHLHHHLHHF	BHLHHHLHHF
508-511	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BHHHHHHHHHF E

LINE DRAWING SET BITS 0-8 @-(UNDERLINE) (100-137B)

CHARACTER	DOT COLUMN	CHARACTER	DOT COLUMN
	0 1 2 3 4 5 6 7 8		0 1 2 3 4 5 6 7 8
0	X	0	X X X
1	X	1	X X X
2	X	2	X X X
3	X	3	X X X
4	X	4	X X X
5	X X X X X	5	X X X
6	X	6	X X X X X X X
7	X	7	X X X X X X X
8	X	8	X X X X X X X
9	X X X X X	9	
10	X	10	
11	X	11	
12	X	12	
13	X	13	
14	X	14	

CHARACTER	DOT COLUMN	CHARACTER	DOT COLUMN
	0 1 2 3 4 5 6 7 8		0 1 2 3 4 5 6 7 8
2	X X X	3	X X X X X X X X X
0	X X X	1	X X X X X X X X X X
1	X X X	2	X X X X X X X X X X
2	X X X	3	X X X X X X X X X X
3	X X X	4	X X X X X X X X X X
4	X X X	5	X X X X X X X X X X
5	X X X	6	X X X X X X X X X X
6	X X X X X X X	7	X X X X X X X X X X
7	X X X X X X X X X X	8	X X X X X X X X X X
8	X X X X X X X X X	9	X X X X X X X X X X
9	X X X	10	X X X X X X X X X X
10	X X X	11	X X X X X X X X X X
11	X X X	12	X X X X X X X X X X
12	X X X	13	X X X X X X X X X X
13	X X X	14	X X X X X X X X X X
14	X X X		

CHARACTER	DOT COLUMN	CHARACTER	DOT COLUMN
	0 1 2 3 4 5 6 7 8		0 1 2 3 4 5 6 7 8
4	X X X X X X	5	X X X
0	X X X X X X	1	X X X
1	X X X X X X	2	X X X
2	X X X X X X	3	X X X
3	X X X X X X	4	X X X
4	X X X X X X	5	X X X
5	X X X X X X	6	X X X
6	X X X X X X	7	X X X
7	X X X X X X	8	X X X
8	X X X X X X	9	X X X
9	X X X X X X	10	X X X
10	X X X X X X	11	X X X
11	X X X X X X	12	X X X
12	X X X X X X	13	X X X
13	X X X X X X	14	X X X
14	X X X X X X		

CHARACTER	DOT COLUMN	CHARACTER	DOT COLUMN
	0 1 2 3 4 5 6 7 8		0 1 2 3 4 5 6 7 8
6	X	7	X
0	X	1	X
1	X	2	X
2	X	3	X
3	X	4	X
4	X	5	X
5	X	6	X
6	X	7	X X X X X
7	X X X X X	8	
8		9	
9		10	
10		11	
11		12	
12		13	
13		14	
14			

CHARACTER	DOT COLUMN	CHARACTER	DOT COLUMN
8	0 1 2 3 4 5 6 7 8	9	0 1 2 3 4 5 6 7 8
0	X X X X X X	0	X X X X X
1		1	X
2		2	X
3		3	X
4		4	X
5		5	X
6		6	X
7	X X X X X X X X	7	X
8	X	8	X
9	X	9	X
10	X	10	X X X X X
11	X	11	X
12		12	X
13		13	X
14		14	X

CHARACTER	DOT COLUMN	CHARACTER	DOT COLUMN
10	0 1 2 3 4 5 6 7 8	11	0 1 2 3 4 5 6 7 8
0	X X X X X X X X X X	0	X X X X X X X X X X
1		1	
2		2	
3		3	
4		4	
5		5	
6		6	
7	X X X X X X X X X X	7	X X X X X X X X X X
8	X	8	X
9	X	9	X
10	X	10	X
11	X	11	X
12		12	
13		13	
14		14	

CHARACTER	DOT COLUMN	CHARACTER	DOT COLUMN
12	0 1 2 3 4 5 6 7 8	13	0 1 2 3 4 5 6 7 8
0	X X X X X X X X X X X X X X	0	X X X X X X X X X X X X X X
1		1	
2		2	
3		3	
4		4	
5		5	
6		6	
7	X X X X X X X X X X X X X X	7	X X X X X X X X X X X X X X
8	X X X X X X X X X X X X X X	8	X X X X X X X X X X X X X X
9	X X X X X X X X X X X X X X	9	X
10	X X X X X X X X X X X X X X	10	X
11	X X X X X X X X X X X X X X	11	X
12		12	
13		13	
14		14	

CHARACTER	DOT COLUMN	CHARACTER	DOT COLUMN
14	0 1 2 3 4 5 6 7 8	15	0 1 2 3 4 5 6 7 8
0	X X X X X X X X X X X X X X	0	X X X X X X X X X X X X X X
1		1	
2		2	
3		3	
4		4	
5		5	
6		6	
7	X X X X X X X X X X X X X X	7	X
8	X X X X X X X X X X X X X X	8	X
9	X X X X X X X X X X X X X X	9	X
10	X X X X X X X X X X X X X X	10	X X X X X X X X X X X X X X
11	X X X X X X X X X X X X X X	11	X
12		12	
13		13	
14		14	

LINE DRAWING SET BITS 0-8 0-(UNDERLINE) (100-137B)

CHARACTER	DOT COLUMN	CHARACTER	DOT COLUMN
16	0 1 2 3 4 5 6 7 8	17	0 1 2 3 4 5 6 7 8
0	X	0	
1	X	1	
2	X	2	
3	X	3	
4	X	4	
5	X	5	
6	X	6	X X X X X X
7	X	7	X X X X X X
8	X	8	X X X X X X
9	X	9	X X X
10	X	10	X X X
11	X	11	X X X
12	X	12	X X X
13	X	13	X X X
14	X X X X X	14	X X X

CHARACTER	DOT COLUMN	CHARACTER	DOT COLUMN
18	0 1 2 3 4 5 6 7 8	19	0 1 2 3 4 5 6 7 8
0		0	X X X
1		1	X X X
2		2	X X X
3		3	X X X
4		4	X X X
5		5	X X X
6		6	X X X X X X
7	X X X X X	7	X X X X X X
8	X	8	X X X X X X
9	X	9	
10	X	10	
11	X	11	
12	X	12	
13	X	13	
14	X	14	

CHARACTER	DOT COLUMN	CHARACTER	DOT COLUMN
20	0 1 2 3 4 5 6 7 8	21	0 1 2 3 4 5 6 7 8
0		0	X
1		1	X
2		2	X
3		3	X
4		4	X
5		5	X X X X X
6		6	X
7	X X X X X	7	X
8	X	8	X
9	X	9	X
10	X	10	X
11	X	11	X
12	X	12	X
13	X	13	X
14	X	14	X

CHARACTER	DOT COLUMN	CHARACTER	DOT COLUMN
22	0 1 2 3 4 5 6 7 8	23	0 1 2 3 4 5 6 7 8
0	X X X	0	
1	X X X	1	
2	X X X	2	
3	X X X	3	
4	X X X	4	
5	X X X	5	
6	X X X X X X X	6	X X X X X X X
7	X X X X X X X X	7	X X X X X X X X
8	X X X X X X X X	8	X X X X X X X X
9	X X X	9	X X X
10	X X X	10	X X X
11	X X X	11	X X X
12	X X X	12	X X X
13	X X X	13	X X X
14	X X X	14	X X X

CHARACTER	DOT COLUMN	CHARACTER	DOT COLUMN
24	0 1 2 3 4 5 6 7 8	25	0 1 2 3 4 5 6 7 8
0	X X X X X X X X	0	X X X X X X
1		1	X
2		2	X
3		3	X
4		4	X
5	X X X X X X X X	5	X
6	X X X X X X X X	6	X
7	X X X X X X X X	7	X
8	X X X X X X X X	8	X
9	X X X X X X X X	9	X
10	X X X X X X X X	10	X
11	X X X X X X X X	11	X
12	X X X X X X X X	12	X
13	X X X X X X X X	13	X
14	X X X X X X X X	14	X

CHARACTER	DOT COLUMN	CHARACTER	DOT COLUMN
26	0 1 2 3 4 5 6 7 8	27	0 1 2 3 4 5 6 7 8
0	X X X X X X X X	0	X
1		1	X
2		2	X
3		3	X
4		4	X
5	X X X X X X X X	5	X X X X X X
6		6	X
7		7	X
8		8	X
9		9	X X X X X X
10	X X X X X X X X	10	X
11	X X X X X X X X	11	X
12	X X X X X X X X	12	X
13	X X X X X X X X	13	X
14	X X X X X X X X	14	X

CHARACTER	DOT COLUMN	CHARACTER	DOT COLUMN
28	0 1 2 3 4 5 6 7 8	29	0 1 2 3 4 5 6 7 8
0	X X X X X X X X	0	X
1		1	X
2		2	X
3		3	X
4		4	X
5		5	X
6		6	X
7	X X X	7	X X X X X X X X X X
8		8	
9		9	
10		10	
11		11	
12		12	
13		13	
14		14	

CHARACTER	DOT COLUMN	CHARACTER	DOT COLUMN
30	0 1 2 3 4 5 6 7 8	31	0 1 2 3 4 5 6 7 8
0	X X X	0	
1		1	
2		2	
3		3	
4		4	
5		5	
6		6	
7		7	X X X X X X X X X X
8		8	X X
9		9	X X
10		10	X X
11		11	X X
12		12	X X
13		13	X X
14		14	X X

LINE DRAWING SET BITS 0-7 @-(UNDERLINE) (100-137B)

01234567	01234567	01234567	01234567
0 HHHHLHHH	0 HHHLHHH	0 HHHLHHH	0 LLLLLLHH
1 HHHHLHHH	1 HHHLHHH	1 HHHLHHH	1 LLLLHHH
2 HHHHLHHH	2 HHHLHHH	2 HHHLHHH	2 LLLLHHH
3 HHHHLHHH	3 HHHLHHH	3 HHHLHHH	3 LLLLHHH
4 HHHHLHHH	4 HHHLHHH	4 HHHLHHH	4 LLLLHHH
5 HHHHLLLL	5 HHHLLLL	5 HHHLLLL	5 LLLLLLL
6 HHHHLHHH	6 HHHLLLL	6 LLLLLLL	6 LLLLLLL
7 HHHHLHHH	7 HHHLLLL	7 LLLLLLL	7 LLLLLLL
8 HHHHLHHH	8 HHHLLLL	8 LLLLLLL	8 LLLLLLL
9 HHHHLLLL	9 HHHLHHH	9 HHHLHHH	9 LLLLLLL
10 HHHHLHHH	10 HHHHHHHH	10 HHHLHHH	10 LLLLLLL
11 HHHHLHHH	11 HHHHHHHH	11 HHHLHHH	11 LLLLLLL
12 HHHHLHHH	12 HHHHHHHH	12 HHHLHHH	12 LLLLLLL
13 HHHHLHHH	13 HHHHHHHH	13 HHHLHHH	13 LLLLLLL
14 HHHHLHHH	14 HHHHHHHH	14 HHHLHHH	14 LLLLLLL
15 HHHHHHHH	15 HHHHHHHH	15 HHHLHHH	15 HHHHHHHH
	01234567	01234567	01234567
0 LLLLLLHH	0 LLLHHHHH	0 HHHLHHH	0 HHHHLHHH
1 LLLLLLHH	1 LLLHHHHH	1 HHHLHHH	1 HHHHLHHH
2 LLLLLLHH	2 LLLHHHHH	2 HHHLHHH	2 HHHHLHHH
3 LLLLLLHH	3 LLLHHHHH	3 HHHLHHH	3 HHHHLHHH
4 LLLLLLHH	4 LLLHHHHH	4 HHHLHHH	4 HHHHLHHH
5 LLLLLLHH	5 LLLHHHHH	5 HHHLHHH	5 HHHHLHHH
6 LLLLLLHH	6 LLLHHHHH	6 HHHLHHH	6 HHHHLHHH
7 LLLLLLHH	7 LLLHHHHH	7 HHHLLLL	7 LLLLHHH
8 LLLLLLHH	8 LLLHHHHH	8 HHHHHHHH	8 HHHHHHHH
9 LLLLLLHH	9 LLLHHHHH	9 HHHHHHHH	9 HHHHHHHH
10 LLLLLLHH	10 LLLHHHHH	10 HHHHHHHH	10 HHHHHHHH
11 LLLLLLHH	11 LLLHHHHH	11 HHHHHHHH	11 HHHHHHHH
12 LLLLLLHH	12 LLLHHHHH	12 HHHHHHHH	12 HHHHHHHH
13 LLLLLLHH	13 LLLHHHHH	13 HHHHHHHH	13 HHHHHHHH
14 LLLLLLHH	14 LLLHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
	01234567	01234567	01234567
0 HHHHHHHH	0 LLLLLHHH	0 HHHHHHHH	0 HHHHHHHH
1 HHHHHHHH	1 HHHLHHH	1 HHHHHHHH	1 HHHHHHHH
2 HHHHHHHH	2 HHHLHHH	2 HHHHHHHH	2 HHHHHHHH
3 HHHHHHHH	3 HHHLHHH	3 HHHHHHHH	3 HHHHHHHH
4 HHHHHHHH	4 HHHLHHH	4 HHHHHHHH	4 HHHHHHHH
5 HHHHHHHH	5 HHHLHHH	5 HHHHHHHH	5 HHHHHHHH
6 HHHHHHHH	6 HHHLHHH	6 HHHHHHHH	6 HHHHHHHH
7 LLLLLL	7 HHHLHHH	7 LLLLLLL	7 LLLLLLL
8 HHHHHHHH	8 HHHLHHH	8 HHHLHHH	8 HHLHHHH
9 HHHHHHHH	9 HHHLHHH	9 HHHLHHH	9 HHLHHHH
10 HHHHHHHH	10 LLLLLHHH	10 HHHLHHH	10 HHLHHHH
11 HHHHHHHH	11 HHHLHHH	11 HHHLHHH	11 HHLHHHH
12 HHHHHHHH	12 HHHLHHH	12 HHHLHHH	12 HHLHHHH
13 HHHHHHHH	13 HHHLHHH	13 HHHLHHH	13 HHLHHHH
14 HHHHHHHH	14 HHHLHHH	14 HHHLHHH	14 HHLHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHLHHH	15 HHLHHHH
	01234567	01234567	01234567
0 HHHHHHHH	0 HHHLHHH	0 HHHLHHH	0 LLLLHHH
1 HHHHHHHH	1 HHHLHHH	1 HHHLHHH	1 HHHHLHHH
2 HHHHHHHH	2 HHHLHHH	2 HHHLHHH	2 HHHHLHHH
3 HHHHHHHH	3 HHHLHHH	3 HHHLHHH	3 HHHHLHHH
4 HHHHHHHH	4 HHHLHHH	4 HHHLHHH	4 HHHHLHHH
5 HHHHHHHH	5 HHHLHHH	5 HHHLHHH	5 LLLLHHH
6 HHHHHHHH	6 LLLLHHH	6 LLLLHHH	6 HHHHLHHH
7 LLLLLL	7 LLLLHHH	7 LLLLHHH	7 HHHHLHHH
8 HHLHHHH	8 LLLLHHH	8 LLLLHHH	8 HHHHLHHH
9 HHLHHHH	9 HHHLHHH	9 HHHLHHH	9 HHHHLHHH
10 HHLHHHH	10 HHHLHHH	10 HHHLHHH	10 LLLLHHH
11 HHLHHHH	11 HHHLHHH	11 HHHLHHH	11 HHHHLHHH
12 HHHHHHHH	12 HHHLHHH	12 HHHLHHH	12 HHHHLHHH
13 HHHHHHHH	13 HHHLHHH	13 HHHLHHH	13 HHHHLHHH
14 HHHHHHHH	14 HHHLHHH	14 HHHLHHH	14 HHHHLHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHLHHH	15 HHHHLHHH

01234567	01234567	01234567	01234567
0 HHHHLHHH 1 HHHHLHHH 2 HHHHLHHH 3 HHHHLHHH 4 HHHHLHHH 5 HHHHLHHH 6 HHHHLHHH 7 HHHHLHHH 8 HHHHLHHH 9 HHHHLHHH 10 HHHHLHHH 11 HHHHLHHH 12 HHHHLHHH 13 HHHHLHHH 14 LLLLLHHH 15 HHHHHHHH	0 HHHHHHHHH 1 HHHHHHHHH 2 HHHHHHHHH 3 HHHHHHHHH 4 HHHHHHHHH 5 HHHHHHHHH 6 HHHLLLHHH 7 HHHLLLHHH 8 HHHLLLHHH 9 HHHLLLHHH 10 HHHLLLHHH 11 HHHLLLHHH 12 HHHLLLHHH 13 HHHLLLHHH 14 HHHLLLHHH 15 HHHHHHHHH	0 HHHHHHHHH 1 HHHHHHHHH 2 HHHHHHHHH 3 HHHHHHHHH 4 HHHHHHHHH 5 HHHHHHHHH 6 HHHHHHHHH 7 HHHHHLLL 8 HHHHLHHH 9 HHHHLHHH 10 HHHHLHHH 11 HHHHLHHH 12 HHHHLHHH 13 HHHHLHHH 14 HHHHLHHH 15 HHHHHHHHH	0 HHHLLLHHH 1 HHHLLLHHH 2 HHHLLLHHH 3 HHHLLLHHH 4 HHHLLLHHH 5 HHHLLLHHH 6 LLLLLHHH 7 LLLLLHHH 8 LLLLLHHH 9 HHHHHHHHH 10 HHHHHHHHH 11 HHHHHHHHH 12 HHHHHHHHH 13 HHHHHHHHH 14 HHHHHHHHH 15 HHHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHHH 1 HHHHHHHHH 2 HHHHHHHHH 3 HHHHHHHHH 4 HHHHHHHHH 5 HHHHHHHHH 6 HHHHHHHHH 7 LLLLLHHH 8 HHHHLHHH 9 HHHHLHHH 10 HHHHLHHH 11 HHHHLHHH 12 HHHHLHHH 13 HHHHLHHH 14 HHHHLHHH 15 HHHHHHHHH	0 HHHHLHHH 1 HHHHLHHH 2 HHHHLHHH 3 HHHHLHHH 4 HHHHLHHH 5 LLLLLHHH 6 HHHHLHHH 7 HHHHLHHH 8 HHHHLHHH 9 HHHHLHHH 10 HHHHLHHH 11 HHHHLHHH 12 HHHHLHHH 13 HHHHLHHH 14 HHHHLHHH 15 HHHHHHHHH	0 HHHLLLHHH 1 HHHLLLHHH 2 HHHLLLHHH 3 HHHLLLHHH 4 HHHLLLHHH 5 HHHLLLHHH 6 HHHLLLHHH 7 LLLLLHHH 8 LLLLLHHH 9 HHHLLLHHH 10 HHHLLLHHH 11 HHHLLLHHH 12 HHHLLLHHH 13 HHHLLLHHH 14 HHHLLLHHH 15 HHHHHHHHH	0 HHHHHHHHH 1 HHHHHHHHH 2 HHHHHHHHH 3 HHHHHHHHH 4 HHHHHHHHH 5 HHHHHHHHH 6 LLLLLHHH 7 LLLLLHHH 8 LLLLLHHH 9 HHHLLLHHH 10 HHHLLLHHH 11 HHHLLLHHH 12 HHHLLLHHH 13 HHHLLLHHH 14 HHHLLLHHH 15 HHHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHHH 1 HHHHHHHHH 2 HHHHHHHHH 3 HHHHHHHHH 4 HHHHHHHHH 5 LLLLLLLL 6 LLLLLLLL 7 LLLLLLLL 8 LLLLLLLL 9 LLLLLLLL 10 LLLLLLLL 11 LLLLLLLL 12 LLLLLLLL 13 LLLLLLLL 14 LLLLLLLL 15 HHHHHHHHH	0 LLLLLHHH 1 HHHHLHHH 2 HHHHLHHH 3 HHHHLHHH 4 HHHHLHHH 5 HHHHLHHH 6 HHHHLHHH 7 HHHHLHHH 8 HHHHLHHH 9 HHHHLHHH 10 HHHHLHHH 11 HHHHLHHH 12 HHHHLHHH 13 HHHHLHHH 14 HHHHLHHH 15 HHHHHHHHH	0 HHHHHHHHH 1 HHHHHHHHH 2 HHHHHHHHH 3 HHHHHHHHH 4 HHHHHHHHH 5 HHHHHHHHH 6 HHHHHHHHH 7 HHHHHHHHH 8 HHHHHHHHH 9 HHHHHHHHH 10 LLLLLLLL 11 LLLLLLLL 12 LLLLLLLL 13 LLLLLLLL 14 LLLLLLLL 15 HHHHHHHHH	0 HHHHLHHH 1 HHHHLHHH 2 HHHHLHHH 3 HHHHLHHH 4 HHHHLHHH 5 LLLLLHHH 6 HHHHLHHH 7 HHHHLHHH 8 HHHHLHHH 9 LLLLLHHH 10 HHHHLHHH 11 HHHHLHHH 12 HHHHLHHH 13 HHHHLHHH 14 HHHHLHHH 15 HHHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHHH 1 HHHHHHHHH 2 HHHHHHHHH 3 HHHHHHHHH 4 HHHHHHHHH 5 HHHHHHHHH 6 HHHHHHHHH 7 LLLHHHLL 8 HHHHHHHHH 9 HHHHHHHHH 10 HHHHHHHHH 11 HHHHHHHHH 12 HHHHHHHHH 13 HHHHHHHHH 14 HHHHHHHHH 15 HHHHHHHHH	0 HHLHHHLH 1 HHLHHHLH 2 HHLHHHLH 3 HHLHHHLH 4 HHLHHHLH 5 HHLHHHLH 6 HHLHHHLH 7 LLLHHHLL 8 HHHHHHHHH 9 HHHHHHHHH 10 HHHHHHHHH 11 HHHHHHHHH 12 HHHHHHHHH 13 HHHHHHHHH 14 HHHHHHHHH 15 HHHHHHHHH	0 HHHHHHHHH 1 HHHHHHHHH 2 HHHHHHHHH 3 HHHHHHHHH 4 HHHHHHHHH 5 HHHHHHHHH 6 HHHHHHHHH 7 HHHLLLHH 8 HHHHHHHHH 9 HHHHHHHHH 10 HHHHHHHHH 11 HHHHHHHHH 12 HHHHHHHHH 13 HHHHHHHHH 14 HHHHHHHHH 15 HHHHHHHHH	0 HHHHHHHHH 1 HHHHHHHHH 2 HHHHHHHHH 3 HHHHHHHHH 4 HHHHHHHHH 5 HHHHHHHHH 6 HHHHHHHHH 7 LLLLLLLL 8 HHLHHHLH 9 HHLHHHLH 10 HHLHHHLH 11 HHLHHHLH 12 HHLHHHLH 13 HHLHHHLH 14 HHLHHHLH 15 HHHHHHHHH

LINE DRAWING SET BITS 0-7

HEWLETT-PACKARD CO.

W-(UNDERLINE) (100-137B)

MMI 4K PROM FORMAT

GGGGGGGGGGGGGGGGGGGGGGGGGGGG

000-003	S	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF
004-007		BHHHLHHHHF	BLLLHHHHF	BHHHLHHHHF	BHHHLHHHHF
008-011		BHHHLHHHHF	BLLLHHHHF	BHHHLHHHHF	BHHHLHHHHF
012-015		BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF	BHHHHHHHHHF
016-019		BHHLLHHHF	BHHLLHHHF	BHHLLHHHF	BHHLLHHHF
020-023		BHHLLHHHF	BHHLLHHHF	BHHLLHHHF	BHHLLHHHF
024-027		BLLLHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
028-031		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
032-035		BHHLLHHHF	BHHLLHHHF	BHHLLHHHF	BHHLLHHHF
036-039		BHHLLHHHF	BHHLLHHHF	BHHLLLLLF	BLLLLLFFF
040-043		BHHLLLLLF	BHHLLHHHF	BHHLLHHHF	BHHLLHHHF
044-047		BHHLLHHHF	BHHLLHHHF	BHHLLHHHF	BHHHHHHHHF
048-051		BLLLLLFFF	BLLLLLFFF	BLLLLLFFF	BLLLLLFFF
052-055		BLLLLLFFF	BLLLLLFFF	BLLLLLFFF	BLLLLLFFF
056-059		BLLLLLFFF	BLLLLLFFF	BLLLLLFFF	BLLLLLFFF
060-063		BLLLLLFFF	BLLLLLFFF	BLLLLLFFF	BHHHHHHHHF
064-067		BHHLLLLLF	BHHLLLLLF	BHHLLLLLF	BHHLLLLLF
068-071		BHHLLLLLF	BHHLLLLLF	BHHLLLLLF	BHHLLLLLF
072-075		BHHLLLLLF	BHHLLLLLF	BHHLLLLLF	BHHLLLLLF
076-079		BHHLLLLLF	BHHLLLLLF	BHHLLLLLF	BHHHHHHHHF
080-083		BHHHHHLLL	BHHHHHLLL	BHHHHHLLL	BHHHHHLLL
084-087		BHHHHHLLL	BHHHHHLLL	BHHHHHLLL	BHHHHHLLL
088-091		BHHHHHLLL	BHHHHHLLL	BHHHHHLLL	BHHHHHLLL
092-095		BHHHHHLLL	BHHHHHLLL	BHHHHHLLL	BHHHHHHHHF
096-099		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
100-103		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BLLLHHHF
104-107		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
108-111		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
112-115		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
116-119		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLLLL
120-123		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
124-127		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
128-131		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
132-135		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BLLLLLFFF
136-139		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
140-143		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
144-147		BHHHLLLL	BHHHLLLL	BHHHLLLL	BHHHLHHHF
148-151		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
152-155		BHHHLHHHF	BHHHLHHHF	BHHHLLLL	BHHHLHHHF
156-159		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHF
160-163		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
164-167		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BLLLFFF
168-171		BHHLHHHHF	BHHLHHHHF	BHHLHHHHF	BHHLHHHHF
172-175		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
176-179		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
180-183		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BLLLFFF
184-187		BHHHHHLHHF	BHHHHHLHHF	BHHHHHLHHF	BHHHHHLHHF
188-191		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
192-195		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
196-199		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BLLLFFF
200-203		BHHLHHLHHF	BHHLHHLHHF	BHHLHHLHHF	BHHLHHLHHF
204-207		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
208-211		BHHLLHHHF	BHHLLHHHF	BHHLLHHHF	BHHLLHHHF
212-215		BHHLLHHHF	BHHLLHHHF	BHHLLLLL	BLLLFFF
216-219		BLLLFFF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
220-223		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHF
224-227		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
228-231		BHHHLHHHF	BHHHLHHHF	BLLLFFF	BLLLFFF
232-235		BLLLFFF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
236-239		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHF
240-243		BHHHLLLL	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
244-247		BHHHLHHHF	BHHHLLLL	BHHHLHHHF	BHHHLHHHF
248-251		BHHHLHHHF	BHHHLHHHF	BHHHLLLL	BHHHLHHHF
252-255		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHF

256-259	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	
260-263	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	
264-267	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	
268-271	BHHHLHHHF	BHHHLHHHF	BHHHLLLL	BHHHHHHHHF	
272-275	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	
276-279	BHHHHHHHHF	BHHHHHHHHF	BLLL	BLLLHHHF	
280-283	BLLL	BLLLHHHF	BHLLL	BHLLLHHHF	
284-287	BHLLL	BHLLLHHHF	BHLLL	BHLLLHHHF	
288-291	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	
292-295	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BLLL	BLLLHHHF
296-299	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	
300-303	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHF	
304-307	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	
308-311	BHHLLLHHHF	BHHLLLHHHF	BHHLLL	BHHLLLHHHF	
312-315	BHHLLL	BHHLLLHHHF	BHHHHHHHHF	BHHHHHHHHF	
316-319	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	
320-323	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	
324-327	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHLLL	BHHLLLHHHF
328-331	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	
332-335	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHF	
336-339	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	
340-343	BHHHLHHHF	BHHHLLLL	BHHHLHHHF	BHHHLHHHF	
344-347	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	
348-351	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHF	
352-355	BHLLL	BHLLLHHHF	BHLLL	BHLLLHHHF	
356-359	BHLLL	BHLLLHHHF	BLLL	BLLLHHHF	
360-363	BLLL	BLLLHHHF	BHLLL	BHLLLHHHF	
364-367	BHLLL	BHLLLHHHF	BHLLL	BHLLLHHHF	
368-371	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	
372-375	BHHHHHHHHF	BHHHHHHHHF	BHHLLL	BHHLLLHHHF	
376-379	BHHLLL	BHHLLLHHHF	BHHLLL	BHHLLLHHHF	
380-383	BHHLLL	BHHLLLHHHF	BHHLLL	BHHLLLHHHF	
384-387	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	
388-391	BHHHHHHHHF	BLLL	BLLLHHHF	BLLLHHHF	
392-395	BLLL	BLLLHHHF	BLLL	BLLLHHHF	
396-399	BLLL	BLLLHHHF	BLLL	BLLLHHHF	
400-403	BHHLLL	BHHLLLHHHF	BHHHLHHHF	BHHHLHHHF	
404-407	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	
408-411	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	
412-415	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHF	
416-419	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	
420-423	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	
424-427	BHHHHHHHHF	BHHHHHHHHF	BLLL	BLLLHHHF	
428-431	BLLL	BLLLHHHF	BLLL	BLLLHHHF	
432-435	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	
436-439	BHHHLHHHF	BHHLLL	BHHHLHHHF	BHHHLHHHF	
440-443	BHHHLHHHF	BHHLLL	BHHHLHHHF	BHHHLHHHF	
444-447	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHF	
448-451	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	
452-455	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BLLHHHLLL	
456-459	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	
460-463	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	
464-467	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	
468-471	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BLLL	BLLLHHHF
472-475	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	
476-479	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	
480-483	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	
484-487	BHHHHHHHHF	BHHHHHHHHF	BHHLLL	BHHLLLHHHF	
488-491	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	
492-495	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	
496-499	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	
500-503	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BLLL	BLLLHHHF
504-507	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	
508-511	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BHHHHHHHHF	

LINE DRAWING SET BIT 8 (NUL-DEL) (000-1778)

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4	HHHHHHHH
5	HHHHHHHH

LINE DRAWING SET BIT 8

HEWLETT-PACKARD CO.

(NUL-DEL) (000-177B)

MMI 4K PROM FORMAT

004-007 BHHHHHHHHHF BHHHHHHHLHHF BHHHHHHHHHF BHHHHHHHHHF
008-011 BHHHHHHHHHF BHHHHHHHLHHF BHHHHHHHHHF BHHHHHHHHHF
012-015 BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF
016-019 BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF
020-023 BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF
024-027 BHHHHHHLHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF
028-031 BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF
032-035 BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF
036-039 BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF
040-043 BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF
044-047 BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF
048-051 BHHHHHHLHHF BHHHHHHLHHF BHHHHHHLHHF BHHHHHHLHHF
052-055 BHHHHHHLHHF BHHHHHHLHHF BHHHHHHLHHF BHHHHHHLHHF
056-059 BHHHHHHLLHF BHHHHHHLHHF BHHHHHHLHHF BHHHHHHLHHF
060-063 BHHHHHLHHF BHHHHHLHHF BHHHHHLHHF BHHHHHLHHF
064-067 BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF
068-071 BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF
072-075 BHHHHHHHLHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF
076-079 BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF
080-083 BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF
084-087 BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF
088-091 BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF
092-095 BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF
096-099 BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF
100-103 BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHLHHF
104-107 BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF
108-111 BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF
112-115 BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF
116-119 BHHHHHHHHHF BHHHHHHHLHF BHHHHHHHHHF BHHHHHHHHHF
120-123 BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF
124-127 BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF
128-131 BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF
132-135 BHHHHHHHHHF BHHHHHHHLHF BHHHHHHHHHF BHHHHHHHHHF
136-139 BHHHHHLHHF BHHHHHHLLHF BHHHHHLHHF BHHHHHLHHF
140-143 BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF
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148-151 BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF
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156-159 BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF
160-163 BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF
164-167 BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHLHF
168-171 BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF
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176-179 BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF
180-183 BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHLHF BHHHHHHLLHF
184-187 BHHHHHHLLHF BHHHHHHHLHHF BHHHHHHLHHF BHHHHHHLHHF
188-191 BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF
192-195 BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHLLHF
196-199 BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHLLHF
200-203 BHHHHHLHHF BHHHHHLHHF BHHHHHLHHF BHHHHHLHHF
204-207 BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF
208-211 BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF
212-215 BHHHHHHHHHF BHHHHHHHHHF BHHHHHLHHF BHHHHHLHHF
216-219 BHHHHHLHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF
220-223 BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF
224-227 BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF
228-231 BHHHHHHHHHF BHHHHHHHHHF BHHHHHLHHF BHHHHHLHHF
232-235 BHHHHHLHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF
236-239 BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF
240-243 BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF
244-247 BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHLHHF
248-251 BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF
252-255 BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF
256-259 BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF BHHHHHHHHHF

260-263	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHLHF	BHHHHHHHLHF
264-267	BHHHHHHHLHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
268-271	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
272-275	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
276-279	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHLLHF	BHHHHHHLLHF
280-283	BHHHHHHLLHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
284-287	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
288-291	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
292-295	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHLHF
296-299	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
300-303	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
304-307	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
308-311	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHLHF	BHHHHHHHLHF
312-315	BHHHHHHHLHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
316-319	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
320-323	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
324-327	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHMLHF	BHHHHHHHLHF
328-331	BHHHHHHHLHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
332-335	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
336-339	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
340-343	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHLHF
344-347	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
348-351	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
352-355	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
356-359	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHLHHF	BHHHHHLHHF
360-363	BHHHHHLHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
364-367	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
368-371	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
372-375	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHLHF
376-379	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
380-383	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
384-387	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
388-391	BHHHHHHHHHF	BHHHHHLHHF	BHHHHHLHHF	BHHHHHLHHF
392-395	BHHHHHLHHF	BHHHHHLHHF	BHHHHHLHHF	BHHHHHLHHF
396-399	BHHHHHLHHF	BHHHHHLHHF	BHHHHHLHHF	BHHHHHHHHHF
400-403	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
404-407	BHHHHHHHHHF	BHHHHHHHLHF	BHHHHHHHHHF	BHHHHHHHHHF
408-411	BHHHHHHHHHF	BHHHHHHHLHF	BHHHHHHHHHF	BHHHHHHHHHF
412-415	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
416-419	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
420-423	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
424-427	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHLHHF	BHHHHHLHHF
428-431	BHHHHHLHHF	BHHHHHLHHF	BHHHHHLHHF	BHHHHHHHHHF
432-435	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
436-439	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHLHF	BHHHHHLHF
440-443	BHHHHHLHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
444-447	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
448-451	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
452-455	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHLHF
456-459	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
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472-475	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
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